THE TIMES Higher Education SUPPLEMENT

JET decision boosts British science morale

science corresponden

This week's decision to site JET, the Common Murket thermomedean fusion project, at Culham In Oxford. shire, is a major morale boost for British science.

Half the team of 320 who ore to he recruited to work directly on the £120m project area the next fire years will be Beltish, and significant scientific employment is likely to be generated outside

Cullians.

The 100 or so university physicists working to the field of plasona physics are likely to find renowed interest in their research. The success of JET will depend on the ability to achieve controlled fusion of hydrogen oroms heaterl under pressure in a daughnut shaned pressure in a daughnut shaned degrees—where they exist in plasma, the so-called fourth state of notter.

All the Institute of Physics, sant the Inext and Physics in was a particularly source of energy for the trenty-first continue boast to the morale of the physics romannity in Ilritain at a time when spending on hig srience, anotably unclear research, is being supplies in under 4tt years.

100-plus intuke the college was lun-ing for, het consideredily more than the 20-40 range the UGC had en-visaged for the elite engineering courses it is promoting at half a dozen universities.

ozen universities.
Sir Brion Flowers, rectur of lin-

UGC to support Imperial's

elite engineering course

and engineers on the project were likely to come from other Euro-

The British contingent will scientists transferred from other work at the Atomic Energy Authority laboraturies at Culhani, ond graduates recruited directly from universitles.

The project leader is expected to by chosen within two or three months. He ar she will certainly not be British and is most likely to be French. Dr Paul Rebut, who has led the team of 30 to 40 scientists preparing plans for JET since 1973, is a strong contender.

JET is to be built on a 180 ocre green field site. Five years have been allowed for constructing and commissioning the 20-ft torus. Experiments may then continue

forus "vessel to 100 million legrees—where they exist in dasma, the so-called fourth state f motter.

Dr. J. Cohen, executive secretary of the Institute of Physics, said the ET decision was a particularly elegate boast to the morale of the

But a spakesman at Culban parental against overoptimism on the recruitment front. Although it was too early to say exartly how the JET team would be chosen, the

Campus meetings discuss more Commond anti-Jewish society motions

The issue of Zianism was due to be discussed in Wednesday of Hull University and Middlesex Polytechole. Other discussions were scheduled to take place at the University of Kem and at York University, where the student union earlier this year revoked its ban on the Jewish Society.

Palestine. Though several outions equaling Zinnism with racism have been passed by student unions during the past 12 munths, the Huim of Jewish Students feels that the ride of opinion may now he swinging in its farour. Last week noti-Zionist mutions

were rejected at Warwick Univer-versity and at Newrastle and Brighton pulytechnics.
The Nutlonal Pulon of Students s planning in take measures to

by Judith Judd

At an executive NHS meeting on Sunday it was agreed by 11 votes to three against Jewish societies on university and polytechnic commisses were port to students' union meetings this week.

The issue of Zianism was due to be discussed in Wednesday of Hull University and Middlesex Polytechnic to take place at the University of Kem and at York University where the student mion enrier this year revoked its ban on the Jewish.

On Thesebay meetings at Surrer and Reading universities broke up

Society.

On The soling miversities broke up before policy on the question had been decided.

The meetings are a prelimbe to the Notional Union of Students conference in December, when the notional configuration of the Sudents with the Socialist Workers' Party to ban the Jewish Society at Sulford University. versity.
Mr Mushe Forman said: "1 will

need some convincing that there was not some sort of deal between the General Union of Palestinian Stodents and the SWP arer Salford. The GDPS members supported the bounding of the Jerrish Society," That the allegation was firmly

paper examination of whole of the first paper rent of the second to rejected by a senior representative of GUPS. He said Mr Forman was would be examined confusing being a Zionist with being ing 40 per cent of the structure in the structure intending a study his logical or sai night take on opining statistics and lines the licality for the phase could do further measurement.

The exchange took place during a conference on Palestine organized by Reading University Liberal Club.

for maths exam urge

Universities are in memer diar the produced outbonisting to be reversed and in introduced. introduced, o single ling Conference of Entronce has son The SCUE was a line that the conference of the scue was a line to the scue was a

students' union fee system maths department osking both for the science department on alysted by a second university mathematical and a second of the science department on alysted by a second of the science department of the sc The Government is to review its multi-million pound spending on students' union fees under pressure from the Comptroller and Auditor General. It is office, which acts as a watching over government spending has alwaydy expressed concerning. agreement about day
tent of the core. This
fore, SCUE publish
syllobus that u belas
A-levels should ladde
Dr. Harry Bis ing has already expressed concernable the open-oded nature of the system under which more than £11m

is spent nomally on students capitation fees.
The Deportment of Education and Science has been given until the Dr Hurry Pitt, chan University, estimated a tion, leaving only for uptions.
The simplest rouse, regests, would be to as

ong science nos over given until the end of this mooth to prepare o re-port ood the auditor-general will lay his report on the subject before Par-llanian in January when the Public Accounts Committee is expected to begin its investigation of students' union floancing. The main issue which the committee will examine is that uf accountability, to what extent the use of ablity, to what extent the use of public funds by students is occountable to the Secretary of Stote for Education out to the Treasury and local authorities who provide the rash. The controversial question of students' onion autonomy is almost certain to be raised.

certain to be raised.

The DES is onderstood to hove been reluctant 10 ogree to the raview after Mrs Thetcher's abortive attempt to make payment of feet to students' unions voluntary.

The National Union of Students

The National Union of Students

paid.

University student union fees runga from £14 for each foll-time student of the School of Criontal ond African Studies in London to £55 o head at Edhiborgh university.

In further education some fees or each of the School of Criontal ond African Studies in London to £55 o head at Edhiborgh university.

In further education some fees or each of the School of Criontal ond African Studies in London to £55 o head at Edhiborgh university.

The National Union of Students

Assessors attack

could do further welfer SCHE found the war.

STORE compliants of the only that student fall revised in the whit of countries, but also himself the student fall security in the countries that shaded to emphasts was proudent to enable the traditional bid and for university. Eacher to country specified album the result on this over a before the traditional bid and the country specified album th Cardiff report Studrits should be ! encouragement to study neumetrical insight is at as in a plane, they are stand clearly what is prend and have "a re-orders of magnitude at The controversiol report of the haptly into the appointment of two lecturers by University Cullege, Cardiff, has been attacked in a series of confidential letters by two of the independent external assessors largived in the selection procedure. f error and approximate Furthermote, any mathematics should

The inquiry was lustifuted ofter doguments discovered by students during an accupation showed that br C. W. Bevon, the principal, and opprenched Professor John Beetlestone and mother academic before the jobs which they now hold were odvertised. the economy and beautificipline of the great discipline of the greaters of methonalics.

Should go through life is chance to appreciate the use of grootery and signor the twork of Descartes, or that a large part of riess andes con be expressed ton's law in the form of hifferential equation.

The distinction "nodern" and "must's is no longer spore should be abulished, the

In a letter Inid before the college conucli last week, Professor Malcolm Frozer, pro-vicu-choucellor of Esst Anglia University, accuses the report of triviolity and peaks of the embarrassing position in which he has been placed by the invitation to act as externed esseasar. He says that if he had known of the correspondence between the principal and professor Beetlestone be would not have sceepted the appointment of 1886550r. In a second letter Professor Poul Block, professor of science education at Chaisea College, London, saya the teport contains misrepresentations and inoccuracies.

The report, prepared by Mr H. E. Froncis, QC, found In his letter to Professor L. A. Moritz, Cardiff's Reprincipal (odministration) and registrar, Professor Reprincipal (odministration) and registrar, Professor Reprincipal (odministration) and registrar, Professor Reprincipal (odministration) and registrary and register says that at no time during his conversation has a sout the inquiry did he have the register of the register of

Lift I had thought I was, I would have wished One point only: that if I had known of the about my rule in the proce of the principal and Professor cumunities.

See lessons, in particular that my name had been

silility as an academic publisher to be "awwe of public opinion".

"There should, of course, be no suggestion that views expressed in OU courses should necessarily accord with public opinion generally, or in a particular sector.

"However, when a course team deliberately chooses to express views designed to shock or run counter to public opinion, this should be done with full knowledge of the possible affect on the public image of the university."

Oo the role of external acceptal assessors, the new droft report says there is a need for "rationalization". It occepts their major role should be to edvise the course toom, and to oid them to produce better material.

The NUS will press for a stodents' union fee guoranteed by contral government for all students. The union believes that such a guaranteed minimum fee should be of least £15 for all full-time homa and overseas stodents, though thia moy have to he achieved over a period of tima. A second proposal is that individual uniona should negotiate with governing bodles over ony supplementary fee requirements. Such grants would be paid by local authorities, reclaimable from central government in the case of students on nondatury owards.

The onlon wants notional nego-

The onion wants notional nego-tiating machinery to assess the scale of supplementary grants required by students to include the NUS, the local authorities and the DES.

THE TIMES

SUPPLEMENT

Government pressed to reform Soft pedal for

said this week that it would oppose only moves the reduce antonomy or the use the review as a pretext for cutting the level of students' union fees. However, it believes that o new system of financing should ollow unions to be both publicly accountable and to conduct negotiations with college governing bodies.

Students will press their own ideas for reform on the DES, in findomental weakness of the present system of floancing concerns the massive disparity in feu payment for mandatory oward students in higher education and discretionary/ne oward students in further education.

Each Crowley College of Technology and £28 al Glasgow College of Technology.

The problems of accountability inherent in the current urrongence, the university conocil or capitation lucone out the university conocil or cutting in least even of the institution.

The problems of accountability inherent in the current urrongence to example, the university conocil or capitation lucone out the university conocil or capitation lucone out the institution.

The problems of accountability inherent in the current urrongence is example, the university conocil or capitation lucone out the cultivation of the Layfield Roport on local authority finance, which set out the principle that the holy graviding the service should be responsible for financing it, has given impetus to the coll for change.

The NUS will press their own inherent in the current urrongence in the current urrongence in the current urrongence in the current urronge ments are clear. In the university conocil or capitation lucone out the institution.

The problems of accountability inherent in the current urronge ments are clear. In the university conocil or capitation because the level of capitation lucone out the institution.

The problems of accountability inherent in the current urronge ments are clear. In the university conocil or capitation or court determines that level of capitation lucone out the institution.

The problems of accountability inherent in the current urronge made

Students will press their own ideas for reform on the DES. In o stotement the NUS said: "The fundomental weakness of the present system of floaucing coocerns the massive disparity in feu payment for mandatory owned students in higher education and discretionary/in mandatory students in

discretionary/ne oward students in further education."

At present local outhorities only have to pay union fees for students

have in pay union fees for students following designated courses in receipt at mondatory awards. About 90 per cost of this is reclaimed from central government by the authorities. All other union fees are paid at the discretion of the lucul unthorities. The system lends to great disparities in the unounts paid.

Professors Block (left) and Frozer-" Report was mis-leading".

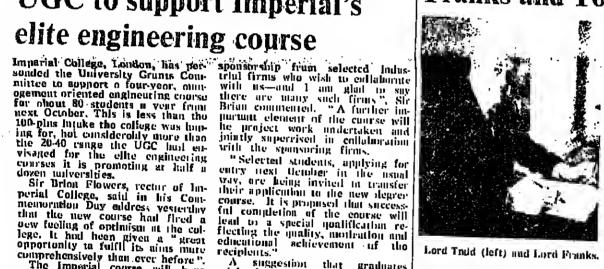
suggested by the coolidate, I would not have accepted the appointment to be an external assessor."

He goes on: "It seems to me that Mr Francis has picked on the trivial and anecdatal parts of our conversation to include in bis report and he bas lost out what I consider to be important." Professor Frazer says it is unfortunate that the report gives the impression that he failed to observe the rule of confidentiality in the making of appointments.

Professor Eleck, whose letter to Reviews Maries was also placed before the college council, professor and seems speculations made in the report about his attitude.

"I object most strongly to your action in giving wide publicity to inaccurate and unchacked speculation about my rule in the proceedings of your solection.

outlaw student unions that dis-crintinate against university and rolloge lewish societies. Franks and Todd join OM



educational achievement of the opportunity to fulfill its aims must comprehensively than ever hefore".

The imperial course will have three speciolists streams cuverlog engineering, but there will be a common eloment of suclat, economic of the technical programme. The existing "total technology" course—in mechanical engineering into to be confused with the Science Research Council postgraduote scheme for year engineering to the same man by will eventually be absorbed into the new course.

"The imake will be integrated to the same man before it can release them out start uctivo response to the same man by will eventually be absorbed into the new course.

"The imake will be initied to discount scheme for year engineering courses—"The uGC is also supporting new four year engineering courses—"The imake will be limited to a smaller scale—at Blrmingham, Manchester, Strathelyde, Brunel ond, prahably, Oxford and the Royal Commission of the Royal Commission.

Lord Todd (left) and Lord Franks.

Lord Todd (left) and Lord Franks.

Lord Todd (left) and Lord Franks.

College to the Royal Control of the Royal Control of the Royal Control of Christ's College, Cambridge, and Lord Franks.

Society and master of Christ's College, Cambridge, and Lord Franks.

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Society and master of Christ's College, Cambridge, and Lord Franks.

Society and master of Christ's College of Murcoster College, Oxford, mith and professor of the analysis of the new course of organic chemistry at Cambridge, and Lord Franks.

Alexander Todd, who is 70, was of the new course of organic

End to grant inquiry closing date | ban agreed

OU staff ask for

jehot.

B

was owarded the 1957 Nobel chemistry prize fur his work on nucleotides.

Between 1952 and 1964 he chaired the Government's Advisory Council on Scientific Policy, and he was chairman of the Royal Commission on Medical Education from 1966 to 1968. Lord Told is chancellor of Struthelydo University.

The Order of Medic, which is limited to 24 members, is regorded as Britain's lighest civil distinction. The novellst J. II. Pricate as Britain's lightest civil distinction. The novellst J. II. Pricate and complexity of Fables as Britain's lightest civil distinction. The novellst J. II. Pricate and complexity of Fables as Britain's lightest civil distinction. The novellst J. II. Pricate and complexity of Fables and approach, as the content of the University of Fables and approach, and the University of Fables and approach, and the University of Fables and approach, and the University of Fables and the Universit

Material of the second of the

Academics at the Open University or likely next week to press for a date for the completain of a difference of particular that the presser regulation of the future of the exarcise, which is designed in indicate whether there is as a second that he presser is a primar facte case under university statute to start disinssal proceedings against Mr. O'Carroll, chalrman of the Pacdophile information Exchange.

The recovery of the Pacdophile information in the Pacdophile information of the Pacdophile information of the Pacdophile information in the DES point in the presser of the purious posses of the concept of the purious posses of the

Constemts

Lord Robbins



In the first of a series of interviews with great ullegations of Marxist hius in some courses, has abamboned a controversial clouso urging that controversial clouso urging that controversial clousourging the public opinion.

But the document—rewritten after the university's academic board rejected the group's first atteory—recumends compulsary or terroll assessment from particular sections. figures of the years of expansion Peter Scott talks to Lord Robbins, 11

Richard Titmuss

Robert Pinker assesses the achievement of Richard Titmuss, the champion of altruism in social policy, 15

Unravelling Oakes

The background to the inquiry, the main options for the committee, and a who's who guide to the members in "Briefing", 9 The alternative to Oakes. leader, 14

Northern Ireland

David Walker describes how higher education has coped with Ulster's troubles, 10

Break-up of Britain

Bernard Crick reviews Tom Nairn's The break-up of Britain, 16

"A subsidiery though not unimportant function is to provide the university (which among British neademic institutions is uniquely open to criticism) with reassurances that Linguistics

Four pages of reviews of to criticism) with reassurances that au lodapandent external acedamic is satisfied that the course is boing produced in accordance with the criticism is the ottempt to make course term chairmen collectively responsible for the uniterial produced. Academics at the Open new linguistic books, 18-21

produced. Academics at the Open University may see this os moking a radical elternion to the responsibility of the course team as o whole reports on some recent Johns Hopkins head research, 10

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Universities cool on AUT pay protest

Universities have jurned down n regast from the Association of Universities, the day of action bout pay. The view being token by most is, thut, while they symbolic with the lecturers' claim, the work of the university and its the Opposest.

Staff have been told that if they start favore been told that if they and their start favore their timetables so the start floy are a free to go on the flow the north-east and special troins those from the north-east and special facilities and toutorials should not be held has been rejected,

What Laurle Sapper, general secretary accurse and any members of staff two may want to rearrange their to rearrange their two may want to rearrange their two may want to rearrange their two who do not rearrange their they were the callion now expects it will have to hold two maetings in the Cantral Hall, Wesinloster, in order to accommodate oil those who can be on the demonstration. At least two profess.

Staff have been told that if they define the north-east and special troins those from the north-east and special form the north-east and speci

OU 'public

awareness?

A new draft roport on acodemic stoodards, compiled by on Open University working party following ullegations of Murxist hius in some

attempt—recummends compulsury external assessment for every new course and a more musterful role for course team chairmen.

The new version was to be discussed by the working group taday. If occepted, it will go before the university's acodemic buard on November 10.

The working party was originally

set up to report on ocademic sundards ofter allegations from Professor Julius Gould, of Noulogham University, that a new course entitled "Schooling and Society" contained a Marxist slant.

contained a Marxist slant.

In September, the working party's first report infuriated acodemics. One of the four criteria recommended for uso in the composition of courses stated: "They should be written to a manner sensitive to public opinion."

Thot clause has now heen scrapped. In its place is o paragraph referring to the university's responsibility as an academic publisher to be "aware of nublic opinion."

But it feels they must pay regard to the thrae criteria for course production—they should be of high academic standing; reflect tha independence of acodemic judgment; and encourage independent and critical thought among students.

The new deaft describes this roles.

The new draft daecribes this role

for its output.

Mandatory fee

awards urged

for 16-19 group

The Government should introdes on industry awards for all your people remaining in further size, tion in the next financial years, step towards solving yout a complayment. Mr Len Mung General Secretary of the Ticking in London last week.

Insufficient weight had bergieven to the need to help was people of 16-19 to remain in finite country of the National Control of the solid at the National Control of the solid of the s

education, he said at the Nabes Union of Teachers annual con-

*Al present young peoples on for sixth-form rourses a 27 full time in further rduces a little rduces of local suffer

at the mercy of local automorphism financial help."

The mandatory scheme oddy, done on the basis of arranger, similar to those already ensure Scutland without undue costs.

Scatland triplout undue costs ing on the exchequer, he say ing on the exchequer, he say ing on the exchequer, he say in the construction and industry in probably vocational training Mr Marray what of some stoge the Gorenz, would need to develop a contensive strategy for universal president for young workers—and an economy would have to impose a on employers.

on employers,
The traile nuloo movement

its part will give a high prient to this."

by Maggie Richards

Disrusshins are to be held fietween the Department of Education and Science and odult literary organizaions about stop-gap grant aid to provide a continued central focus for the while literacy scheme.

This follows the announcement Mrs Williams, Serretury of State Education, last week that initial for Education, last week that initial funds in lacal education authorizies for the adult literacy programme will reose to March. Mrs. Williams has handed over the task of planting o long-term strategy for the whole field of basic eduration to the newly-formed Advisory Council for Allat and Contaming Education.

"During the three-year lifetime of the fault literacy programme £3m has been handed out and more than 160,000 adults have come forward with reading and writing problems.

To bridge the gap between the end of financial support and the formulation of a policy for basic education there will be consultations about grunt stid. Mrs Williams's contoincement was made in a written reply to two parliamentary questions on the father of the adult literacy programme last week.

She emphasized that the numey for adult literacy projects of Lea.s and voluntary organizations had not been intended or cover the whole cost of the operation, mor to provide more than an initial in-

onfidence of the Adult Literacy Resource Agency and its parent hody, the National Institute of Adult Education, that Lears having responded well to die needs re-vealed by the rumpaign would ensure continued provising

"I also agree with the agency and the institute, that the further development of the adult literary service needs to be considered in the broader routext of a strategy for odult basic education as a whole", she aided.

"As a first step I am urgently seeking the odvire of the newly-established Advisory Council for Adult and Combuning Education so that we can most effertively build literary campaign."

Mrs Williams also said roosulta-tlans would be held on the vexed question of further fluorial sup-port for valuntary literacy organiza-tions, and on how for laral authority provision could be reflected to the Rate Support Gront settlement. She sold she would make a fur-

ther adonurement as soon as pos-



Dr Richard Hoggart (left), its first rhairman, and Mr Oakes, Minister for Higher Educatian, at the inaugurol meeting of the new Advisory Council for Adult and Cantinuing Education.

Dr Kerr defends four year courses

The assumptions about teacher training made by the Government lo his recent education green paper wera criticized last week by Dr Edwin Kerr, chief officer of the Council for National Acadomic Awards.

Speaking in Windermere at the ixib Joint Conference on Libraries end Learning Resources, he sold that the CNAA and other volidating bodles would not accept passively the Green Popar's dismissal of four-year training courses simply on the

Ile went on: "We have to easess very carefully whather the throe year courses are producing what was expacted from thom at the time of validation. I do not believe that the validation be dies are going to be satisfied with a ane-sentence dismissal of the idea of four-year basic courses in teacher education."

Dr Kerr wacned that the Green paper's recommandations were in danger of overloading troining courses. By pressing for an injection of mora amphasis on literacy, numeracy and multi-cultural education, as well as more training in individual subjects, the government was in danger of squeezing a quart into a pint pot, he said.

He was also critical of the way teacher training had suppusedly been integrated with the rost of higher education. He said that in many cases overgers between institutions had resulted not so much in integration us in "a college within o college".

The problems of integration were of learning resources in Edge Hill College of Higher Education, He said that libraries had faced enormons reorganization problems as a result of the mergers and redeploy-

But ha added: "Libraries hove often token the lead in forging links between institutions because they are central services. They have not just been handmaidens but have helped to point the way ahead."

For many libraries the reorganiza-tion of colleges had furred those to change their roles and get involved in course planning. Different pat-terns of learning, individual learning techniques and reduced tencher con-tact had increosed the workloud of staff.

Copyright will be retained by the candi-dates but home who submit autiable entirer may be offered commercial backing in order to dereion their ideas.

Further information may be obtained fromt

No D II Heke MBE BA MBIM,
Director of Education,
The English-Speaking Union,
Dertmouth House,
37 Charles Street.
London WIX 8AB

colleges. Due trend had been the grouping together of all the re-source agencies in the original cul-leges to furm a courn! learning resources and to serve the new

The Whitermere conference, my The Wittlermere conference, may
in its sixth year, was arganised
jointly by the Deportment of Education and Science, the National Association of Teachers in Further and
Higher Education and the Library
Association. But callege librariums
are also considering setting up a
"learning resources group".

A ordering resources group "

A principal reason for setting up tha new body, detailed in a working paper circulated ut Windermere, is that colleges of higher eduration rannet coopete with large institutions such as polytochnics and universities in the amount of maney ovaliable. The amount of maney and ways of managing their less extensive resources in the best way.

The four-day conference was addressed by a number of speakers, including Mr J. Barnett, principal of Ripon and York St John College; Professor Rath Beard of Bradford University; Mr L. Gilbert, assistant director of the Council for Educational Technology, and Professor Aloc Ross of Lancaster University.

The Sex Distrimination Act should induissing of glrls to universities, colleges and schools the National Council for Civil Liberties is organge In its lotest report proposing omendments to the Act and the Equal Pay Act the NCCL suggests the adoption of opiois systems to encourage girls to enter educational fields where they have been dis-couraged or denied access in the

It suggests one method of positive

'Change Sex Act to

Unless the need for positive ection is recognised suon as necessary we shall see equality of uppor-

education, local outhorities teat-ers, the trading bodies and bet sides of industry had a ben responsibility to ensure the appropriate policies were formulated female admissions'

priate posteres were formused an means and resources found to se effect to them.

So far the Government ple scheme for unified vocational paration and the Manpower Series Commission scheme for apprehis Commission scheme for apprents

employers, particularly on substanting arrivagements,

"The THC believes that the wast of the individual young water cannot be left to she who the employer. Still only one gid a gets day release, for lays it is gets day release, for lays it is gets day release, for lays it is gets. per cent, and these lights are been slowly but passent; the clining."

Vicational education and mines would unver become a reality with

mutt comparisory day or block reless.
How this could be best eclient
was a matter for discussion and
dehate, but the Youth Opportunite
Programme for Young Dicaplesel
provided same guidables, particularly in this area of parts experience

It suggests one method of positive discrimination would be to introduce target figures for certain subjects, so that a percentage of girls would be taking them to A level.

The scheme would be linked in a collega achiesions quant so that the girls would be assured of a better chance to use their knowledge through practical qualifications.

The report also says there should be a definite onendment to the Sex Distrimination Act leading to the abolition of single-sex schools. "We are convinced that they are a significant factor in the continued separation of sex-roles and sterentypes forced on boys and girls."

City guilty over grants delay

by Bert Loilge
The Ombudsman has found Birmlogham City Council guilty of maladministration causing jujunice because it deloyed payment of student's grout. The ruse aruse after the student's mother cumplained that the gram twice arrived a few week's loto. It has been recommended that the city should consider reimbursing the complainment for any expense incurred.

The second year of the student's university course began in October, 1976, but she did not meeting the consider chapters in the student's university had been the student's university ha

university course began in October, 1976, hut she did not receive her grant until early November, a month after she was supposed to have paid the term's rent in advance. The summer term hegan on April 25, 1977, and her grant only arrived on May 13.

The mother complained that in October she and her husband had to send her monoy in addition to the one of the discountillation that were supposed ber daughter incurred an uverdraft of the discountillation of the education department had recently begun to log the lime taken to assess the grant taken to assess the grant of the contribution that were supposed to difficult assessments outstanding at difficult assessments outstanding at the lime, a fraction of the difficult assessments outstanding at the lime, a fraction of the length of the lime taken to assess the grant taken to assess the grant

to make. And in the summer term ber daughter incurred an uverdraft on which she had to pay £8.52 in bank charges.

Birmingham Council officers told the Combudenton they could not find the statement of parental income the complainant said sha returned by April 30, 1976. After receiving no notice of assessment, the telestical councils and the statement of the telestical councils. no notice of assessment, she tele-phoned in August and September

was mirensonable. There were 151 difficult assessments outstanding at that time, a fraction of the assessment; the awards division made each were

assessments the awards in alle each year.

However, after the matter had heen considered by the further education subcommittee, four new posts had been created and one part of the process had been eliminate by the use of a computerized system.—Ti.S.

mouth, taken by David Hurn, head of the school of documentary photography at Gwent College of Higher Education. During the exhibition Mr Hurn will give a lecture un his work, one of a series prompanying exhibitions by distinguished photographers at the university in the next six months,

Nuffield to fill research councils' finance gap

by Clive Cookson

science correspondent The Nuffield Foundation has decided to spund more of its in-come on research that would normally be supported by the research

The foundation's angual report, The foundation's amutal report, published today, says this new policy will help to counter the danger that "the sheer abruptness with which some of the research councils are being required to reduce their expenditure in real terms with mean that research of acknowledged worth is brought to an untimety end, or that young men and women who would he normal riccumstances be embarking on distinguished careers in research are now prevented from research are now prevented from doing so for kuck of support".

In the past Nuffield has only supported projects which full between the research councils' spheres of operation or had been turned down for reasons the foundation thought unjustified.

The repurr says many

The repurr says many researchers are shy of applying for Nuffield grants because they are under the impression that the foundation

shares to the National Enlargate floard of 10p o share has seriously weakened its financial position.

The truth, however, is that Nuffield was not nearly as seriously damaged as had at one time been feered at 1976 turned out to be an unexpectedly good year, with in-

Cambridge dons

protest against

Pretoria bannings

Says.
Another reason why researchers are rejuctant to approach Nuffield, according to the report, is uncertainty about the relationship beween private foundations and government sponsored research councils. The advantages of o Nuf-

cuncils. The advantages of o Nuffield grant, it says, ore the speed and flexibility of the foundation's grant-making procedures.

"The fundation expects that the flexibility which it enjoys may be especially important during the years immediately ghead. The trustess therefore wish it to be known that they wakeome, now as known that they welcome, now as always, opplications for funds to support outstanding research in science and medicine even though the research councils may often seem the most obvious recipients."

The L4m is distributed according to the research councils share of the Srience Vote, the SRC will get just over £2m. However, as SRC

of the folialistion's concern during 1976 was more adequately to understand and more explicitly to defino its present and fature role in British suriety". This redefinition of policy left to the conclusion that Nuffleld's wide range of interests should remain essentially the second of the conclusion thu same as they have been for the

past 31 yours.

"If there should ever come of time when public budgets are as generous as they were in the 1960s, that might be the time when the foundation would be more strongly towards they of consent to CONCENT. tempted than ot present to concentrate its resources on a narrower

Share-out of extra science cash next week

for the Research Cauncils meets next Friday to divide up the extra £4m added to the 1978/79 Science Vota hy the Chancellor of the Exchequer in his minibodger last

per rent ource to share out among the five research rouncils in the coming financial year than It had in 1977/78—a little over £250m at Novembor 1977 prires. But a further £3m would be needed to restore fully the £7m cut from the Srience Vote by Mr Fleoley In 1976.

The annual report says "much of the foundation's concern during chairman Professor Gaoffrey Allen

The council had no shortage o high priority programmes on which to spend ony oxtra money, he said, olthough the wuy it decided to spend its share of the £4m would depend whether it was a one-off bonus or repeated in future years—which was not known yet. In the former case it would have to be invested in hordware; in the latter it could be devoted to longer term projects.

NUS set to launch national anti-apartheid campaign

by Peter David

One hundred Cambridge University dons have written to the South African Embassy in profest agoinst the recent banning orders and detentions in South Africa.

Headed by Professor Lord Kaldor, fellow of King's College and former government economics. The National Union of Students has colled this week for a national student eampaign against South Africa's policy of apartheld and Britain's rola in blocking Security Council resolutions calling for the investigation of specimes.

did not a check the state of the South African contents by your government hove clearly illustrated its compilete contempt for world opinion.

Nevertheless, we write, as acadenic staff of Cambridga University, to express our deep sense of our rage at those actions. We deplore the banning of numerous organizations and deniand that these measures be immediately rescluded.

The dons are perilcularly contents of the measures while world opinion.

Nevertheless, we write, as academic statif of Cambridga University, to express our deep sense of ourrage at those actions. We deplore the banning of numerous organizations and the three measures be immediately rescluded."

The dons are particularly concerned at the measures which have been taken ogalist the South African Students Organization and the South African Students Students Organization and the South African Students Organization and the South African Students South African Students Movement.

They say they will bring all possible pressare out the British Government to follow the example of the Americans in reexamilining its relations with South Africa.

Meanwhille, students at Aberdeen were this week conthining their schools in defining their schools in defining their schools were this week conthining their schools in the students' representative council in the students from oil both the representative council in the students from oil the students' representative council in the students from oil interest the summent in the students from oil the students' representative council in the students' repres

the property of the second second of the second of the

refusing to leave until the univer-sity disposes of its shores in 16 firms alleged to have connexious

New adult education council meets for the first time

Two reports are to be produced for the newly-formed Advisory Council for Adult and Continuing Educanon, andining a strategy for basic adult education and pingointing the council's other priority casts.

The conneil's inaugural meeting Williams, the Secretary of State for Education, and Mr. Oakes, the Minister of State overseeing higher

Mrs Williams placed before the Ars Williams placed before the control a commission on: "advise on the best way of building my the adult literacy campaign of the last three years in order to create and implement a coherent strategy for the basic coherent of adults, including continuing provision for cluding continuing provision adult literacy."

The councils first action was to establish a sub-committee to give argent unention to Mrs Williams's request, and to produce an interlac report on its findings in January, the council's second he sub-committee is to be headed by Professor H. A. Judes, Vaughou professor of education and director of the department of adult educa-tion at Leicester University.

for its 1978 programme. This group will be under the direction of Mr. Naumi McIntosh, pro-vice-chancel for for student affairs at the Open University. It will also report to the council's January meeting.

Mrs Williams and Mr Oakes indiwere looking to the council, as an imbependent hody with wide terms of reference, to strengthen the Johly for adult education and give t an influential new voice.

They wanted the countil to look at ways of forging stranger links helween higher and adult educa-tion of moking available basic educational apparametrize to adults and at the educational implications of changing technology, developing in-dustrial democracy, and earlier

The council would, oo doub, rousider these and other issues when it looked at how resources might best be used over the next

professor of education and director of the department of adult education at Leicester University.

A second working group was also created to look at the other priori-

Low-cost material plan begins

A two-year project to develop law-cost resumce materials for training neadoute suff to teach has been launched by eight universities and one palytechnic.

The design ood production will be undertaken by the Un-sity Teaching Methods

Universities generally occept the need for some troining of lecturers and, furthered by the Coordinating Committee fur the Training of lectures use.

They will collect and validate existing in-service materials, Jevelop new ones, and identify factors university Teachers (CCTOT), the which binder their effective use.

neademic smiff to teach has been launched by eight universities and one palytechoic.

The £10,000 project, funded by the Conversity and the Council for Educational Technology, using to investignte the potential of resource materials to develop staff's tearhing and monagement skills

Universities governible accept the resource each converse softened and Surrey University, hoth of which will set up a resource control each converse.

ASSOCIATION OF **UNIVERSITY TEACHERS**

National Meeting Parliamentary Lobby

November 16th 2 p.m.

Central Hall, Westminster in support of a just pay settlement

The English-Speaking English English Speaking English Competition DATE OF ENTRY: Entries should be submilited between 31 March and 30 June 1978. The match will be announced in October 1978, and the judger decision will be final. RLIGIBILITY: Entitles can be accepted only from individuals living, or working in institutions hased, in the United Kingdom, ENTRIES: Entries thould describe practical projects which make an original continuism to the improvement of teaching and learning of English, with amphasis on the use of English as a medium of international communication and understanding. AWARDS: The judges are Empresend to secondered up to three swards of £500 and ten commendations worth £50 each. The award wineers will receive a medal and those commended a certificate.

The following areas in the field of language studies are suggested, but the list is not meant to be exhaustive or exclusive; training of fractions; teaching materials; testing techniques language tearning in developing countries; courses in broadcasting; dicklonary development; approaches to grammar; audio-visual aids.

SUBMISSION OF ENTRIFS: Entries must be in the form of a typewritten exticte of

NORTH AMERICAN NEWS

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for accountability, has responded with special courses for college

Recently the Educational Testing Service conducted a survey to find our bow effective these faculty

development courses were. It did not identify the lifeal pattern. But

is found that some of the current ways of encouraging good teaching

were ousatisfactory, and often those lecturers who most needed teaching

improvement coorses were least likely to get them,

rarious prograounes into foor cute-gories: workshaps, seminars, or

dmilar presentations; analysis or

velopment programmes. But pro-fessionals who wanted to become

batter teachers were thu group most layolved, and those in most need of

first of its kind in Amorica.

The contract links extra pay to

ters to \$104 for secretaries, were.

student numbers, and last week the bannses, ranging from 5275 for lecturers and administra-

The questionnaire grupped the

Survey criticizes dons'

'how-to-teach' schemes

The quality of university teaching two of reaching were moderately in-

the quality of university teaching has become o subject of great controversy in Americo. With the rapid rise in the costs of universities, students and parents have become less third about expressing distribution with the effectiventors of college teaching. Some states have set oside money for instructional improvement and higher education, aware of the pressure for accountability, has responded

record. He thought the dual student ratings come be made emphasis on teaching and roscorch effective if they were used us a might occaunt for the lack of decutelyst for bringing lecturers into other impravement activities an

Staff cash in on increase

elepment pragrammes. other impravement activities an Lecturers in their firsht year or campus.

art of leading, and professors who had tought for some thate had passibly because stale in their methods, presentation or outlook.

As for the effectiveness of existing professors are supplied to the stale of the

ing practices, respondents rated the use of about 45 different activities on campuses. Providing small

on campuses. Providing small grants tothe faculty for teuching improvements or innovations was found to be common in universities and larger colleges, and was not only rated as effective but popular. Money to start or run small grant programmes, found faculty exchanges or visits to other institutions, and the use of expert teachers

tions, and the ose of expert teachers to work with others, were found to be much cheaper and quite suc-

cessful.
Another proctice, not widely used but considered prumising, is the growth contract, an individual

tices, respondents said, was the

teachers by students were used at over 30 per cent of the institutions, but only half estimated the rutings

o be effective.

Mr Centro said teoching imprave-

men is the first said the said in the pur-puse for callecting radings. Lec-turers aften got little interpreta-tion of their results, and those with

Dundee looks further than doctors from WHO

by Clive Confison science correspondent

Dondee University's Centre for Medical Education which has been running rourses in educational planning and technology for the World Health Organisation since 1975 is beginning to make them available tu o wider range of medical

The programme started two years agu with o three-week course attended by 12 senior faculty meatbersifrom Egyption medical schools. They were given an averview of the principles applied in medical teaching unit a series of case studies in carriculum development and

The Egyptians were fullowed by groups of WHO fellows from several Middle Eastern countries. Many have been sentor teachers und administrators in a strong position to influence their faculties, including three deans.

There was traffic in the opposite direction the: stuff from Danilee trovelled to Arab medical schools to provide short courses oud "on the provide short courses out "on the provide short courses out "on the provide short courses out the provide sito workshops".

The relationship with the WIfO remains very close, said Mr Fred Abbatt, the senior lecturer in medi-

Birmingham open

mature students

of taking full-time degree comses

There were also talks from Pro-

fessar Jack Allimson, the univer-

slly's senior representative an tho Jaint Matriculation Board, and Mr

Jaint Matriculation Board, and wir Rab Sowers, tutor to mature

onlyorsity hopes the meeting may have helped to reveel difficulties

facing malure students, and woys of adjusting the curriculum to toest their needs.

day attracts

sculor tutors.

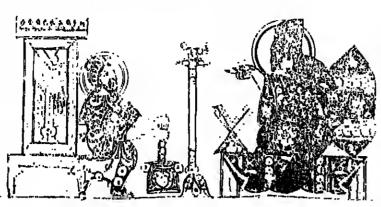
tion irrocedure.

cal education who is in charge of the programme, but the centre is more trying to interest a wider range of medical teachers in the courses. Thus, only half of the 15 students on the first course of the 1977-58 session were sponsored by the WHO. The remainder came from ing Scotland, Ireland, Burnea and India.

The great differences in partici-pants' backgrounds were important, Mr Abbart said. They learnt a lor from each other.

The must popular course, "edurational pluming and technology; the design and implementation of medical courses ", is held twice a rear for 15 to 25 students, Futtrweek courses in curriculous development and assessment and evaluation and one of eight weeks on the design and production of materials are designed for groups of five to 10.

The assessment and evaluation course has the very practical oin of equipping medical trachers to design and implement improved tests of both practical (clinical) and theoretical skills. The centre is especially proud of a new, efficient clinical examination devised at Duodee: the "nhiective structured clinical examination" cal examination" aims to da for elluical assessment what mobiple chalce goestions have done for wric-



Early Arnbian pharmacist with mortar and postle.

the things he shows and tells them, ambustion though their overrising interest is The Co and virtually no money to buy teaching materials.

All the courses ore practical in that the previous year's students nature and porticipants are expected to produce worthwhile examples of tires us o result of their Scottish teaching or assessment materials, experiences: in their ortitudes to Fred Abbatt finds his students their own students, their behaviour at faculty meetings, and the ex-

inflution system. The Centre for Medicul Educaabrays whether n new development tion is planning further expansion is gaing to be a practical proposition in their own institution—which combined medical and educational oray have 1,540 medical students course, with half the time spent course, with half the time spent studying a medical subject and half When a Dundee tourn went in it. Another is a not-week intro-Egypt last January to run n work-sliop, they were delighted in see overseas postgraduates.

Communications

Elghteen students have encolled in

the first year of a new communica-

tions degree at Ulster College, the

linked with

speech therapy

the subject's main areas, including in a time subject's main areas, including computing. A professional studie section deals with the rooten and teaching of secondary schools mathematics tuking into account changes. recent changes. For the first two terms student will spend one day a week to schools as part of this section. The third part of the rourse cours a variety of tapies in mathematical columnium.

St Martin's

starts maths

A rourse to retrain quelified teachers for specialist book of mathematics has boson this teacher. So Marthu's College, Lancaste.

In February the college a selected by the Polyaka in Science as soe as a century for such courses where

part of the Governmen's term to improve the quality of such the teaching in schools.

The college has built on he perimee in runoing in-seriete; ing courses to develop a capitating to a certificate in second, mathematics teaching. The action provide help for quite teachers who want to charge a secondary mathematics, a re-

secondary mathematics, a r. shurtage subject in second

The course has three much

equal hot related sections. A meh

matical studies section aims to be

a foundation of understanding in it

schools.

refraining

scheme

The college says that the tours has proved attractive to teather trito have been mable to find join as well as to those who have a pe ticular interest in mathematic which they wish to develop.

similar presentations; analysis or assessment procedures; activities, that involved medio, tachnology, or course development; and institution-wide practices such as subbatical leaves and annual teaching one of the least offective practices respondents said, was the The course tvas drawn up proved and udvertised in the months and 18 teachers has just begins tvork. All have been up ported by their education admittes which inclinic Combinations. out of ulmus 2,600 accredited Out of about 2,600 accredited degrees grouting institutions in Anerica (two-year colleges, four year colleges and universities), just over half now provide some lind of course for their stoff. Of this group, 756 colleges and universities recognized to the ETS survey. shire, Buckingheatshire, Cled at Laurenshire, Some have recired groups from the Lucal Comments Fraining Honed. la general the respondents thought a large number of faculty members had been involved in de-

Journalists to get

A specialist course to give journels is an in-depth briefing on the Employer Community and his problems is to be introduced by the Centre for Arts and Related Studies at the City University next year. The course, entitled "Reporting

her stutes.

Mr Tom Welsh, director of journalism studies at the City University, sald this week; "It is intraded sity, sald this week; "he is her week to be the sald the sal sity, said this week: "It is intrided to provide essential background for editors, leader writers, news editor; and specialist correspondents corride the aver increasing volume of news from the European community."

and spokesmen for Brins sill culture ood industry. There sill be a visit to the Lucdon office of the Commission of the European C

vacancles in mathematics, and design and rectinology.

The outhority believes that made people in industry can help out come the shortage of teachers incre subjects provided they are given teacher training.

in student numbers Eight hondred teachers end encourage the 300 full-time and 200 Reployees at Hofstra University, New York, have just been given beauses totalling \$125,000 onder the weeklens of an unusual employ. They contract that is said to be the interpretation of its kind in Amorica.

Charles at the oniversity the description of the oniversity of the oniversity of the oniversity.

In unnauncing the distribution of the extro Incomo, Dr James Shourt, president of Hofstro, said that lust your the total of naw full-time undergraduates was up 13 por cent

los to \$104 for secretsries, were paid out os the result of the ineamostariog arrangement.

The cootract with the American Association of University Professors and the breach of a professional workers' union was signed in February and retrarective to September, 1970. It goarantees staff e minimum pay rise of about 3 per cent in the first year, ond 5.6 per cent in the second year, ond 5.6 per cent in the lifety year—about \$500, \$750 and \$1,000 obove the bose salary.

In addition, the contract olso says half any money received in fees and latten above the 1976-77 level 1837m) will be shared balween teachers, and omployaes. The binus is the latter and omployaes, The binus is the latter and omployaes. The binus is the latter and omployaes, The binus for the latter of the latter and omployaes. The binus for the latter of the latter and omployaes, the binus of the latter of the latter and omployaes. The binus for the latter and omployaes, the binus of possible wage freezes provided of possible wage freezes provided of possible wage freezes provided and length the capital and the day."

This year, he added the figure of the figure of the flow for the latter of about 2,000 stolents and latter and the flower there are not remained as the professors and the provious year.

This year, he added the figure of the flow is the flower than latter and full-inneed for the contractive to September, and the provious year.

This year, he added the flower them last your and the flower them last of about 2,000 stolents and the miner of indian reservotions or with in reconstruction of students, and retractive to September, and the flower them last of about 2,000 stolents are not very and the first year. Altogether there are not very and the flower them last of the day of or shaded the flower them last of the flower them la

When the centre cannot hold

In part two of a series, on diversity in American higher education, our correspondent

strong government leadership at a time of financial difficulty for edu-There have been mores to create a separate Department of Educa-tion on and off for the past 80 years. But day have usually foun-dered on the simple fact that there cation, the need for more efficiency in federal administration and the symbolic importance of a separate

Such a unit would certainly has never been any need for one. Education is not a federal respon-sibility: it is the concern of lacal accelerate the trend towards the centralization and standardization of the American educational system. Even without it Washington has become an litereasingly important focus for oll educators. Everything Is ready to respond to a fully fledged department. The main teacher unions, the National Education Association and

issue.
The federal involvement in edu-cation has traditionally been through the Commissioner of Edu-cation. But the United Stotes National Education Association and the American Pederation of Tearlers, have their headquarters in the capital, so does the American Association of University Professors. A host of higher education organizations and lobby groups are clustered together in Washington. Some education bodies, especially those dealing with montey, remain in New York. But this is only a short air container distance from the rapital.

The facus of the associations' Office of Education has very little, if any, leeway in tornuluting policy. Its job is to advise, coordinate and puss on the trishes of Congress in the form of grants A separate Department of Educa-tion implies something for more. It muld suggest that Woshington, not 50 state capitals, was the first time

responsible for the basic pruvision of education. It would suggest power for the secretary of least to oversee, if not direct, the activities of the 60 million Americans enjoyed to the continuous and learning. The fucus of the associations' The facus of the ussociations at the Congress. They poy relatively little attention to what imposes at the Office of Education. But it then office were invested with real policy-making power, they could easily redirect their energies. There is no question that these groups representing mationwide Congress has only recently begun to consider this issue; and the Office of Education has given little lead to State education departments. It is this kind of vacuum that o separate department would fill. Next week: the fight to keep diversity: what is it worth? nt the 60 million Americans engaged in teaching and learning.
Any such proposal round be strongly resisted. It runs contrary to all American traddian of local

Department of Ephration in Deworld also make a strong poli-monthling in national education America one important implication tieal polici, highlighting the gradual policy. What they decide in Wash-

America one important implication seems to have been werlooked. A Lakinet seat for education would not only mean more money and attention for education, but would seem to give the secretary real power in determining educational policy in the United States, his bort, it suggests something America has never had: a Emple Washington DC

Washington DC

There have been werlooked. A lightlighting the gradual proposition by Federal Government length and the provent of individual states. Their of much of the provent came down to a question of states' rights, in would run mito strong opposition in Congress.

Other national trends increasingly unify the policies of the separate particular policy in the United States, and all individual States. Their down to a question of states' rights, in would run mito strong opposition in Congress.

Other national trends increasingly unify the policies of the separate particular policy in the United States and all individual States. Their down to a question of states' rights, in would run mito strong opposition in Congress.

Other national trends increasingly unify the policies of the separate particular policy. What they decide in Washington allocation and much of the proven came at the proven in the united states. Their down to a question of states' rights, in common response.

Other national trends increasingly unify the policies of the separate destination in Congress.

The proposal for a separate destination of the proven in the united states and in the proven case in the united states are proven in the united states and in the proven case in the united states and in the proven case in the united states and in the proven case in the united states and in the proven case in the united states and in the proven case in the united states and in the proven case in the united states and in the proven case in the united states and in the proven case in the united states and in the proven case in the united states and in the proven case in the united states and in the proven case in the un unify the policies of the separate States. Many of the difficulties now besetting American education—violence in schools, falling stan-dards, fitting education to employment and so on—transcend the ubilities of individual States in nockle things on their nwn. Com-mittees of importy are set up with untional briefs. Policies are recom-mended for all the country. National

norms are cited. There is clearly a grawing need for central coordination. To a large extent this is the job of the existing Office of Education. But the office has to wait for Congressional luitintives. Its power is generally limited

In some oreas, therefore, coordination is haphazard. A good example is the question of establishing minimum shordards for high school diplomas. One by one the various Slates have begun to intro-duce tests and examinations ut vorious stoges of the school cureer as a means of enforcing standards. in everyone's laterest these tests should be roughly equivalent: a diversity of standards is not welcome to employers or universities. Congress that only receasely begun to consider this issue; and the Office of Education has given little

Illegal experiment charge is strongly denied

The Deportment of Health, Edu-cation and Welfure has awarded grants totalling \$52m in 190 develop-ing callegos end aniversities search? The uld and trooblesome question has surfaced again, causthroughnot Americo to help them schieve greater academic and finaning considerable commorsy in New York. The Stute's Department The programme is designed of Health has accused the State Unihelp struggling institutions with such limited financial resources that theb ability to ouract students, versity or Albany of conducting experiments which endangered the

ontploy constanding receivers, and Improve their coorse offerings and fucilities is seriously impeded. The funds will support projects in four main oreas—improving the tenri-cultum, increasing administrative

\$52m to raise

communicies and state gavern-ments. Any attempt to after that

responsibility touches on the rights and power of America's constituent states, historically o highly-charged

and regulations.

culum, increasing administrative services. The pragrouma doveloping lustitution

Mr John Centra, a research psychlgist at ETS wh endured the survey, found that largo universities and colleges had a particularly poor record. He thought the dual emphasis on teaching and roscorch in the dual emphasis of the the uxportise of stranger and more experienced universities, and on the resourcesof bosiness and industry. In the post, developing institutions layo paoled their restorces to improve their libraries, career ser-vices, luboratory equipment, and

improve their libruries, career services, luboratory equipment, and computer facilities.

The ewards also pay for national reaching fellowships. Under this programmo, stipends are given to innoir lecturers and groduate students from other institutions in cucumage them to teach of a doveloping institution. The funds will also support retired professors or associated higher seducation to research in the first test of this new law, which arase in part as a result of recent revolutious that the Central Intelligence Agency had conducted lundreds of drug and underliering exportments on unwitting subjects at various universities or ound the country 10 years indicated higher seducation to a subject to died higher the first test of this new law, which arase in part as a result of recent reaching exportments of underlied indellering exportments on unwitting subjects at various universities or ound the country 10 years income skilled higher seducation to a subject to a self-perception to a world to o "self-perception" test aimed at finding aut whether the central first test of this new law, which arase in part as a result of recent that the Central Intelligence Agency had conducted lundreds of drug and underliering exportments on unwitting subjects at various universities or ound the country 10 years into experiments at Albay reagon from the country to a subject to a world to o "self-perception" test aimed at finding aut whether the central first test of this new law, which arase in part as a result of recent the first test of this new law, which arase in part as a result of recent the first test of this new law, which arase in part as a result of recent the first test of this new law, which arase in part as a result of recent the first test of this new law, which arase in part as a result of recent the first test of this new law, which arase in part as a result of recent the first test of this new law, which arase in part as a result of recent the first test of this

are the proper limits of res subject had suffered burns from o

dozens af illegal and unctited test subjects, left one person in-jured and were organized without the infarmed cansent of the test

subjects ar the approval of a university resemble review hnard. Last mouth the Health Department filed formal charges against the university, which has denied only improper actions. Hearings in the case were due to be resumed on Wednesdoy. If found guilty, the university could be fined as much as \$1,000 for each canfirmed violation of a receival appeared whiles

"light source", and cited at least 118 cases of electric shocks being

The list of charges against the university has since been expanded and bichides illegal delving intu-peaple's sexual behaviour and fon-

The university sald informed causent hed been obtained in oil cases, been approved either by the univeralty committee or the cilies committee of the psychology department, Professor Gordon Giding, the chairmon of the department, sold the alectric shacks involved were mild, oud cauld anly be described as uncomfartable rather than pain-

miversity could be finad as much as \$1,000 for each canfirmed violation of a recently ensend ethics. In the case is the first test of this new law, which arase in part as a result of recent revolutions that the Central Intalligence Agency had conducted hundreds of drug and unbid-altering exportments on unviting subjects at various moiversities oround the country 10 years

ful.

In the research on children playing with roys the president of Alhony's Board of Education of Education of Alhony's Board of Education of Education

The case has moused cansidorable interest, esuccivily in States contemporating aimilior laws on research to those of New York. It is also being watched with some apprebution by trolversities who fear yet mora boresucratic control aver that research work.

Most ocivorsities already have reber of cases these have stopped The Health Deportment said one proposed expariments.

Minority numbers rise 16pc

In the past faur years the number of micority students at American callegos has gone up 16.8 per cent, accurding to a survey by the National Association of State Universities and Lauri-Grant Colleges.

In that period total envaluent rosa only 6.3 per cent.

The study found major advances in thack envaluent at troditionally white tamposes. A total of 68.6 per cent of the black nopulation was not prudominantly white histitations.

By canienst in 1968 60.8 per cent traditionally black students students alternally black students students about 45.000 minority students campared with 2,400,000 white students about 45.000 minority students of sill black students students attended 17 traditionally black notiversities and colleges.

The figures showed thore were about 45.000 minority students campared with 2,400,000 white students attended 17 traditionally black notiversities and colleges.

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The figures showed thore were about 45.000 minority students campared with 2,400,000 white students are colleges.

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Practical side emphasized in Trent applied social studies

Birmingham University held an open crening last week to make more adults aware of the possibility t new four-year ordinary degree three years of work with an applied rogramme in applied social studies as been bouched this term to com-The university distributed pasters to encourage adults over the age at 21 to attend the meeting last plement Trent Polytechnic's existing courses in social work and the social

Tuesday, Prospective students were encauraged to join in infor-mal discussions over coffee with The now course, which will lead to both o BA in applied social studies and the award of a Corrifieme of Qualification in Social Work, has not yet gained approval from the Connell for National Academic Awards at honours degree level. Bin the CNAA has given the go ahead for an ordinary degree, and the first 25 students enrolled this

At present there are same 22n students aged 25 and over doing first-dogree courses at Birathagham. The majority hove galned the necessary minimum 0 and A-level qualifications, but 24 have been admitted under a special matriculation procedure. The new degree is not the first to offer both a professional social work quolification and un nendemic degree at the end of the course. tion procedure.
In the past seven years, only one student admitted under this special procedure bas foiled in graduate.
Apart from providing information an fall-time degree caussas, the But it is unusual in the division of time between the academic unil epplied aspects.

While most enquarable courses offer two years of principally ecallentic study, followed by another twa years cancentrating on sucial

social work orientation. According to the course leader, Mr David Richards, one of the most important selling-points of the new degree is that it appeals to me new degree is that it appeals to people what are turnimumly-minded, com-mitted to social work, and keon to obtain a professional and ara-demic qualification in one throw.

Students who decide after joining the course that they are not, after all, heen on making a career in social work can transfer easily into the polyechnic's BA in such sciences, which has a very similar

Mr Richards suld; "We are try-ing to get away from the pottern in which students take a straight scleuce course and social switch abruptly to an applied sucial work course. This degree tries to look all the time at the interrelationship between sorial work and sucial science."

Subjects covered in the degree include social work, suciology, suciol

policy, psychology, law or politics and social administration. In the third year all stodents will speni

work, Trent's course is bosed on a single "ocademic" year followed by agency.

The designers ore particularly keen an the close relationship with

the speech therapy degree. Their sulmission to the Council of National Academic Awards.

Polytechnic of Northern Ireland, which, it is claimed, will end the traditional separation between the study of "normal" und

wrani " ramanialextion. The degree is to run in tamber vith the polyterbule's existing IISc in speech therapy; its tirst two vestes-which can also bead to a DipHE-interlock with the speech

emphasis on scientific work.

Part one lasts two years and concentrates heavily on the major dis-ciplines of psychology and linguis-ties. The scientific accent is driven home by the inclusion of biology and physics as compulsory comple-mentary subjects.

mentary subjects.

Part two contains a high proportion of practical work and enables ton of practical work and enables students to apply the knowledge and conceptual lonis affered in part one. Commonleation pracesses, semantics and discaurse analysis are taught on a multi-disciplinary basia, and the empirical flavour of the course is emphasized by modules in research methodology, computation and statistics.

East-bloc languages part-time

basic knowledge of German, Russian Eastern Europe since 1945 and are or an East European language have introduced to ecanomic geography. embarked on a one-year creating They also analyse the economic churse at the Polytechnic of Central urganization of the Eastern block

course at the Polytechnic of Central urganization of the Eastern block London leading to a postgraduate countries.

London leading to a postgraduate countries.

It has been designed for graduates. Naxt year they will consider the specialists in that diagnosis and treatment of communication discovers to be able to share a specialists in the diagnosis and treatment of communication discovers to be able to share a standard part of their studies with a standard part of their studies in the studies of their studies in the studies of their studies in the students going an to further meaning the standard part of their studies in the students going an to further meaning the standard part of their studies in the students going an to further meaning the standard part of their studies in the standard part of the standard part of their studies in the standard part of the standard pa

or intend to take up a commercial and finoncial and legal arrangecharear in East-West trado not menta. Other forms af aconamic involves two eveolng sessions a menta. Other forms af aconamic canperation will be studied in the first term students to the political and economic conditions and instrution after Eastern Europe as they effected fareign trade, and for devolop their commercially orianted linguistic skills in German ar Russian. Facilities for studying Palish, Czech and ather East European and the concer and industry.

In the first term students to the political and economic dayplop the political and economic dayplop the political and economic dayplop.

Twenty graduates with o saund mant of the Soviet Union and

therapy syllabus. The designation of the new homon communications course as a USC lustead of a HA was a deb-EEC briefing berate attempt to inflicate a givater

The coorse, entitled Actional the Emopean Community will provide a comprehensive brieflag on pulitical, economic and social issues from a journalistic point of riew. Attention will be focused on major issues socia as direct elections, the common agricultural pulicy and the sorreeignly of memor states.

Mr. Tom Wolch, director of journalists and the director of journalists.

Speakers far the two-week programmo will include experience journalists covering Europe, spectrum for the European Commission of experts no Community elfairs Manual spokesmen for British and

Industry teachers

news ogency.

Fifty-seven people from industri have been recruited by the Inst London Education Authority to stan Induction courses to fill teaching vacancles in mathematics, physical and doology and prelimptory.

Ç,

STUDY AT HOME for a London University Externa DEGREE Wolsdy Hall, the only correspondence collegs with full courses for London University External BA degrees, provides lodividual instruction by lightly qualified

Wolsey Hall has a formackable report of works. The pass rate of over 20% is achieved in come degree subjects, achieved in come degree subjects, achieved is tome degree subjects, achieved is the proportion of the 1sl and upper 2nd class honours movereded.

Courtes cover B.A. in One Bublect, B.Sc., Ah. I and II. B.Sc., E.Coo, E.L. B., B.D., London University Diploma and Pottpraduate Cert, in Education, College of Processional Courter and G.C. E. Bublects,

nubjects,
Free prospectus from the Principal
W M M Milligan MBE, TD, MA,
Dept BAI, Wolsey Hall,
Oxford OX2 6PR,
Telephone (0865) 54231
[Ansafone after 4.45, p.m.)

Wolsey Hall oxford occedited CACC Member ABC() | Journal of 1834

about 70 per cent of the students

arrived yesterday, nulike previous-years. Unite relaxed,

come in the sort out the mess while I cape with the irate/teorful su-

deuts and parents. 20.00 Close up again, for the last

things had better. The Jazz Siager makes me feal old again. Was it really that slaw the last time I saw it?

Entry exams are 'rehabilitated'

Althaugh official directives an uni-Although official directives an interventing entering ent

china News Agency. The article is written by Chan Pei-yoan, who is one of Chino's most distinguished scientists and a deputy chairman of Peking University.

Ostensibly, the article deals with Ostopsibly, the article deals with Made, cancern for scientific ond technological education, multissimilar to many which have appeared on this theme in the panefew manths. It refers, however, to events in 1972 which are at special significance. In that your attempts were at a release according that were made to raise acudemic stan-dards, and Chou Pel-yush himself wrote an influential articlo on the wrote an influentist article of meneed to improve sclondific education. Dospite the opposition of the radicals, wha daminated the media, this was published in a notional

tive years of service in the ranse of agricultural production.

Holled as "a here who goes against the ride", Chang was duly rewarded with a college place and, until Hua Kuo-feng personally denarced him as a "new-horn counter-revolutionary" last December, enjoyed causiderable influence as a spakesman for the redicals.

Entrance examinations did not die out, but the radicals were pairerful enough to cosura that

huroduction of various forms of Far the vast majority, two years academic catrance examination of "productive labour" was a pre- and, a much more sensitive matter, requisite for admission to university,

wishes. It requires na great loan of the imagination in appreciate that the author is referring nor

Indeed, Chinese education offi-

According to this report, univorsity entrance examinations for 1977 admission will not be held until December, and this delay suggests that there has been considerable

years, and science courses from four to five. The number of science students is in be increased, more pastgraduate pravision is to be unitle, and new research depart-ments are to be created,

Study abroad considered a 'luxury'

West Germany

cation surveys emphasize that the Federal Republic is inextricably linked oconomically, politically, culturolly and academically with the rest of Europe and the warld. It cannot afford mauoting isolotion of its universities without serious longtown damago, they say.

One of the surveys focused on the offitudes of a cross-section of 1,533 university students, some of whom elso underwent intensive interviows. The other sought to investigate how interested in study-

although there was widosproad interest in studying abroad, most poople regarded such a as a luxury they could not

their latec profossional career; that they might lose their university place; and that in the prosont eca-

a youth who used his examination script to write an open letter to the authorities protesting at the way such tests discriminated in favour of "bookwarms" and against those who, like himself, could claim five years of service in the ranse of agricultural production.

their rale in the aelectian pracedure carried far less weight than many readonties would have wished. They that the merits af direct entry recoived virtually no attention in recoived virtually no attention in

A number of acticles also appeared on foreign language teaching, an area whoce politicization had resulted in praiso being lavished on rextbooks which cantions in translation, scarcely an example of the Chairman's lujunction that one should "teach in a living manner".

The your also witnessed a movo in regularize university enrolment pracoduros which invalved the re-

along with recommendation by "the masses" and good class background.

students and, moreover, that the departments concerned will nat recruit exclusively from the schools.

Education is now finalizing.

It is olso planned to lengther arts

Pressure grows for start

The Ramo University Administra-tive Council has asked the Govern-ment to poss a decree ollawing building to begin an the new com-pus which was appraved by the Cabinet in June together with eight other regional institutions.

They folt rhat it would bring no idditional material advantage in their latee professional career; that is being all that in the prosent ecastic and the properties are properties and the properties are properties and the properties are properties and the properties are properties and the properties and the properties are properties and the properties are properties and the properties and the properties are properties and th

to new universities

Too few Germon students choose to study abroad as pact of their undergraduata degree, according to two survoys by the Ministry of Education and Science.

As student demonstrators manual lineagh ltding cities last mouth, academic administrators confluted to press the Government to proceed with the construction of planticed new universities to case chronic

The council pointed aut that since the Cabinot appeaval na further stops have been taken to make the decision operative. It said the new university was imperative.

fronting Indian students,

At the roat of the unrest has been the lack of jids for the grawing number of graduates, many of whom have foined the ranks of the uncomplayed an finishing their studies. Ironically, the problem has been largely caused by a new education assembly caused by a new education assembly education codes to university lovel. Since its implementation the student population has swelled and with it the number of graduotos.

graduotos.

According to the latost figures is a superior of the latost figures is a superior of the latost figures in the latost figures of 20m. Of the unemployed, 1,253,000 or between 14 and 29.

The institute says that 35 percent, 450,000 of the unemployed, have either comploted high school or their university studies.

The figure of 450,000 is well below the stotistics quoted by the National Students' Association which claims that up to 3m graduates fracti

place; and that in the prosont example of the city and in the prosont collinate that delay in getting their first dagree could affect their chances of getting a folt et all. In addition, the lack of sufficient knowledge of foreign lengthage was quoted. The sum of the constant two pocconditions must be fulfilled in the survey concentration of the constant become must be some integral part of a university as one of sa integral part of a university of an integral part of a university concentration of the constant become must be some integral part of a university of an integral part of a university concentration of the constant part of a university of the constant part of a university concentration of the constant part of a university of the constant part of a university of the constant part of a university of the

in the number of students studying student studying student is to be increased. There must be some angilible advantage and the period of study abroad must be some angilible advantage and the period of study abroad must become making a first fob and the period of study abroad must be some angilible advantage and of study abroad must be some angilible advantage and of study abroad must be come making a first fob and the period of study abroad must be come making a first fob and the period of study abroad must be come making a first fob and the period of study abroad must be come making the students of students of

Don's diary

Saturday

67.00. Bright, clear morning. The campus looks its best at this time of day, even with the henting mains

of day, even wan the henting mains still exposed and huge piles of red garwickshire much showly spreading with each rainfall. Peace and

necks 10.00. By the time we're ready fur

10.00. Hy the time we're ready fur business, whome 50 structures have ardred and and waiting, more arrest patiently, pround the reception area. Little family knots all fucusing on the fledgling about to leave the area giving advice. Less misses

ing an the fledgling about to leave the nest, giving advice, last admitted the nest, giving advice, last admitted instructions, encouragement, warrings. A large Asian family—three generations at least, the whole family except the canary, it seems—approaching with considerable trepleation the abundanment of their daughter to rice lacharium hordes of Warwick. Munchalant, hejeaned, sweatshirted seemal and third years who know the ropes.

12.00. By die time the bar opeus, we have processed a couple of hundred of the 1,000 or sa who will be coming into the residence this year. A Willing Helper (student porter) is despinthed for drids while the rest of its couthant to allacute rooms end cage with the

allocate rooms end care with the

homeless. 16.00. We've had a steedy queue

for more than four hours now.
What am I doing here? My mentors in graduate school didn't tell
me that academic life would be like

quies for the last time for

Call for cuts protests as academic year opens

The university year has started in its traditional manner. A strike call fur Nacember 17 has been made by the left-wing students union, the Union Nationale aes Etudiants de particular or der to get at the list of section of Paris IX Douphine—one of the International manner and the University in question of example of the parish of the p

of Paris IX Dauphine—one of a compliance of the control of the property of the control of the co France.
Despite considerable hesitation by the sacialist members of the communist-led union executive, students are being asked ance again to demonstrate against the con-tinuing cuts in the higher education It is hy na means sure that the call ta arms will be fallawed. The fact that a general election is now fire months away and it view of the considerable anxiety alcout julis,

faculties.
Among first year cutrantes nin; and psychology seem to be juying a new vague. Signification latter is perhaps the only we have the latter is perhaps the latter science ust to have continual, cliud over the past three year.

Apart from parking the anniversary of the May 68 upin this acutleoile year sees the i cycle reforms in the talet ; fourth years of study. The tele

emphasize the need for professuity "relevant" courses. So far, some 750 seconds. year, there were 54,381 new curel-ments. This year the ligure is 52,750. In part this is due to the degree caucses hove been submin the validation commintee: tem applied to universities in the capital, in part to a more rigorous system of selection of the University of Vincennes, hithern comparations. Of the remainder, the rejected were aften returned at The abolition of catchment areas grounds they did not lead to at for the Puris universities has had in the labour market where advidespread repercussiums. This cient cacaucles existed,

the university world is keeping an understandably law profile.

its various proposals for mirersity reform until relations between the

socialists and the communists be-

arder of the day as the left seeks to curb the actions of its more

Enrolments this year have fallen

o the 13 Paris universities. Last

abolition of the cotchment area system applied to universities in the

ively upon.
The abolition of catchment areas

active student supporters.

The left, for example, has slielyed

Talks on staff structure held up by government doubts

dismissed — something widdle AMSTERDAM circually impossible now. Discussions due to take place last: Wherever possible nerse mouth between Hr Ger Kleht, vacancies would be filled by former Higher Education Secretary, demics one rank lower than and the universities on plans to reorganize nemienic staff sometimes had to be postponed because Ibd-land is still without a givernment. Dr Klein, who is now a back bencher, is expected back for a second term in affice if his Surialist backets.

hencher, is expected back for a second term in defice if his Sovinlist Party manages to form a cualified government. The pastponed talks will be high on his list of priorities.

The main reason for reaggatize time is commit. The idea is to increase the efficiency of the universal of the maximum slope of the increase the efficiency of the universal of the maximum slope of the interest of the second of the individual of the past of the state of the second of the interest of the individual of the past of the state of the second of the interest of the individual of the past of the state of the second of the individual of the past of the state of the past of the state of the past of the versitles so that an a severely limited hadget more can be achieved. Since 1973 the number of students has increased it v4.5 per cent yearly, but familing by only it

Even so, Dutch university educatian rates as the most expensive in the traild. One of the major headaches is the natountie prunti-tion system. It is taken for granted that lecturers after a certoin nom-ber af years and withour any clear selection criteria automatically become senior lecturers with salaries of 6,752 gilders a month (ohout £1,520).

The places for resders who would be ship where possible by senior lectures on that readers would erhable disappear. It is olso progosto the the retirement age for reside at professors should be longer from the control of the contro

become sentor lecturers with salaries of 6,752 gilders a month (ohout £1,520).

The reorganization will aim at making ocademics for more accountable. Wark would be regularly assessed and where necostary academics might be demontal or even from 2,860 to 4,255.

this.
20.00 Close up shop for the night and go home to watch the apporting film version of McMillan's still I have missed anything. Why do I lay it?

10.00 Attenuits to return to a suggedy academic sphere of reliviry are thwarted by the telephone. Dr Bell has a lot to answer for. Which residential bouse will be selected for the five dell? What about that report that should have been in last week? "I don't like toy room," Can I attend a meeting on Fritary? A new worden rings to vepart no his first doty pight: a diabeth come, a first-year dead drank to the Square, a broken fast, o broken knee rap fullowing an improaptu smaring Romeo and Juliet. 2230 Back to check that all is OK offit the oight porters. I'm un duly for the next 3 nights. A couple of disks with a colleague (a bar extension), watching the returning pulse trying to more in on the new

12.00 h's been quiet since we opened this unorning. It seems that used ruce arbitrarily and unfairly. The university appealed. The lower court jadgment was upheld by the State Supreme Court of California, and the university then supealed to the Supremu Court of the United State.

The fundamental Issue opports to be quite clear. Having firmly established in recent years that disestablished in recent years that ins-critification ogalist cilizens af minarily race does vialate the Paustitution, the Court now faces rhe quastion whether the Cansilta-ilou permits discrimination on their bahalf. Powerful arguments have heen mode that rockel injustheir bahalf. Poworful arguments have been mode that rocial injustica in the United Status is sa deeply reated in history mid in society that oqual opportunity for minarity races is possible—at least for some time—only by the application of corrective remedies. These me called affirmative action by some, roversa discrimination by others. Mast of the discussion of the Bakke cose addresses this fundamental issue.

con of by my grandeou secretaries 21; 00 To the aits centre to see

Soil out the inevitable wherestoon from here problem.

14.15 Postpra dial, academictype by the teles interrupted by the teles interrupted by the teles interrupted.

error has given as five more hodies than heals. Heads will roll! Unless it's my fault, in which case it's excusable human error resulting fram pressure. My secretary has responded to my plea for help and against the more while phone. The Lodgings Officer has a new student with her, just arrived from Iran, virtually to English, to place to live. Another student comes through the door. The other plane tings. Where are my guardians? Oh ves, late hunch and husband with broken fuot (an epidemic?). 18,00 Weeks later, escape to the sports centre for quiet saona. Enter student: "Can jun help me? I have no place to live." I have no place to hide. Try the stoff club bar, attacked by computer scientist olatat the "neual accommodation shootbles". Retort with "carping criticizing non-participating bloody academics". Urge to kill. Groves of Academe. 20.00 Close up again, for the last time. The error was manageably and fortunately minaceable. Nearly all 1,000 are in, 600 of them new to Warwick. We have survived. An unpleasant incident is reported: simple vandalism or inclient racism? Long discussion with a colleague produces nothing but uncertainty: indecision or academic objectivity? His wife feeds as and things book better. The lazz Slaver

Tuesday

Infiles that share feel old again. Was it really that share the last time I saw it?

MONGAY

1. Mongar the room is full of men's rhings." Move them out and change the lock on the diar." Another Times on the pile, "Mr Malek, you don't seem to understand. There are no empty rouns. This display of energy I don't fued this morning.

1. Do. 1. My new office. The steer is available. There are no empty rouns. They are all filled with single is added to the pile of unopened lessues going back to Wednesday. I don't feel uninferronal; I doubt that I have missed mything. Why do I lay it?

1. Loo Attempts to return to a vaguely academic sphere of reliving are threated by the telephone. Dr I led has a lut to answer for. Which reshleutid house will be selected for the five delli? What about that report Not should have been in last week? "I don't like toy room."

Can I attend a meeting on Feilur?

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I attend a meeting on Feilur?

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I attend a meeting of Feilur?

I attend a meeting on Feilur?

I attend a meeting of Feilur?

I atten

ar. Phone the admissions turoc the department and hand over

Very undergon-like, but they man age. Two quiet hours seeing the construction and experimental comprehens that I could be out talking in sums. An Archbourn's Norman Comprehens that I could be out talking in sums graduate. Petiologic Keith reminds come who is making it, trying to washout. Checks with a collectine duffin as I am introduced to ATV's

Penelape Kelth la "The Nurman Conquests" reminds me af mother

08: 30 Re-allucate unclulmed raous.

the weekend, sart out his reasons for leaving.

11:00 Audio-risual contre staff problems. Lung conversations, suggestions, plucatory remarks.

13:00 How those lunchtime came so make the home of the control of the con quickly? I've been an tha ga all morning, and I feel I're nchloved anthing.

15:30 The first senate of the year, systems? A film studies phouling an oppointed to the arts centre meeting. A discossion about the cumulter, not, f suspect, to the limit programme for the arts centre unalloyed joy of every member of the scente. Will it be unafter year 19:30. A student offered a place yesterday by one of the language departments thrus up and expects to be given somewhere in stoy, having 16:30. The first-ever joint meeting s to set up committee membership. I

in the court of new chancellor. On animous, Not even a breath ut

of senare and rouncil, to nominate

Thursday 09.00. Another whole morning slott trying to sort ant residence prob-leus. Some departments are still admitting! 14.00. Planning meeting for the television workshop, to discuss my rather hasty, hazy outline for the workend. Seems to meet general

ing. Knock an the dour. Phane rings. Theu die uther phone. Cut my firoat.

19.00. Messiah from scraich,

annual kick-off to gor mosteal year, with a charus of almost 200. Good with a charus of alimit 200. Good sing, but my vocal chards going into paralysis (rigor martis?) by Part 3. 23.00. To Stratford to pick up the pieces of a fouled-up screening of Aletropulis die week befare, which they want to see far a furtheaming production in the studin theatra. Still knocked out by parts of it, but find it incredibly slaw tenight. Good to see it ugain in the hig screen, though. Televislao, the great minioturizer.

00.00. Bath sacretarias are appealing their grading this morning, which will take a large hunk out af the day, but both go well, so a subdued aprimisu rises. Between them, a film programming meeting for a merger oteering, to decline bow to orgonize things audicristal should the college become our faculty of cilucation.

17.45 Back in the affice, to get the

bud news from this morning's appeals. Fortunately the girls have gane, so gloom is forestolled until Munday.

Peter Bowen

The muthor is director of the Audio-

Hidden flaws in Bakke

Sunday



Steven Muller

The other flaw is the university's docision to reserve the fixed number of 16 places for minority applicants, whose quelifications were reviewed by a special admissions consulttes. Selective admissions procedures are a traditional procedure are of Applicant university. prerogative of American universities. Had no fixed number of places been set eside, Bakke might oot have sued, or the Califarala State Superiar Court decision might have been different.

of a major ond full decision on facultations in American in the curvature of the curvature for the cur

While diese procedurus prosently take test scarca and prior acodemic take test scarce and prior acodemic performance very much into account, they also are based an owhole array of other contsider origins. The right to select its sudants by its own best judgment has become ostablished as a fundamental of the control of the contro

it heard the appeal, but the university decision to reserve the inversity of Children would not been admits the Culifornia State Supreme Court the law item been no special minority programme. On the basis the Culifornia State Supreme Court the law item and academic grades should the Culifornia State Supreme Court the law item and academic grades should determine quolifications for odnistic is pending with the case is before the mation's highest cunt.

The other flaw is the inversity's admission, pracedures used in signer education.

While these procedures procedures procedures treatment of the university of Children the other hand, if the Supreme Court cererses the lower court decision and fluds for the University of Children the other hand, if the Supreme Court cererses the lower court decision and fluds for the University of Children the other hand, if the Supreme Court cererses the lower court decision and fluds for the University of Children the other hand, if the Supreme Court cererses the lower court decision and fluds for the University of Children the other hand, if the Supreme Court cererses the lower court decision and fluds for the University of Children the other hand, if the Supreme Court cererses the lower court decision and fluds for the University of Children the other hand, if the Supreme Court cererses the lower court decision and fluds for the University of Children the other hand, if the Supreme Court cererses the lower court decision and fluds for the University of Children the other hand, if the Other han respect to minucity race adultsions? That would or might compel universities who have exercised preferential treatment selectively to

What would be the appropriate quoto? It is not avan clem how the University of Collfarms undicas achool at Davis decided on 16 cal achool at Davis decided on 16 places our of a medical school class of 100. Would every university have to micror the raciol composition of the natiod, or its state ar region, in due proportion? What then would bappen to the predominantly black universities? If such a principle were opplied to race, would it olso be extended to see, and beyond?

society that ogusi opportunity far solid that it is society that ogusi opportunity far minarity races is possible—at least for some time—only by the application of corrective remedies. These me called affirmative action by some, reverse discrimination by others. Mast of the discussion of time Bakke cose addresses this fundamental issue.

But the Bakke case is so as clear os it might be. For higher education, it in polytes issues other than race, and it is guestly address the fundamental issue. Even more of places, decided upon hofore canting the projection of the solid projection of the minority applicants it is possible decision of the solid projection of the minority applicants it is possible decision on the major ond full decision on race relations in American saciety. It arouses have to phandon preferential prace of American saciety. It arouses have to phandon preferential prace of Colifornia Court versions in the control of the solid projection of the solid projection of the cause of the decision of the status of the cause of the court of the major that is uncertainty and unfairly was based on the wistence of any prace arbitrarily and unfairly was based on the wistence of any prace arbitrarily and unfairly was based on the wistence of any prace arbitrarily and unfairly was based on the wistence of any prace arbitrarily and unfairly was based on the wistence of any prace arbitrarily and unfairly was based on the wistence of any prace arbitrarily and unfairly was based on the wistence of any prace arbitrarily and unfairly was based on the wistence of any prace arbitrarily and unfairly was based on the wistence of any prace arbitrarily and unfairly was been different.

What is uncerted is whother the security and the essential into the university may and the security in the anatiod, or its statu ar into the exercise of that right, but as the exercise of that right, but as the exercise of their the anatiod, or its statu ar interest to the projection by the constitution in the projection? Of the cast was the ca

مكذا من الره

80.

Dr G. T. Best has been appointed to the chair in physics at the New University of Ulster. His most recent appointment was os seniur research assaciate of the Centre for Atmospheric Research at the University of Lottell in Massachusetts.

Research at the University of Lowell in Massachusetts.
By P. Mortou-Williams, professor of sociology at the University of Cane Coest, has been appointed to the chair of sociology and social antitropology at the New University of Uleter.
De L. Shuart Bock end Dr Evan Wyngones, readere in the department of Chemistry and applied chemistry at the University of Salford, have been promoted to professorships.
Professoe Eric Wilson, who previously held o personal protessorship in lydrautic engineering in the department of civil engineering at the University of Salford, has been promoted to the chair.

Chair in product management to the National College of Agricultural Engl-neering, Bedford. During the past 10 years he has been with the manage-ment centre, University of Bradford.

Mr R. E. V. Graves, scalor lecturer in fluance and accounting. University of girmingham, has been appointed to the Sir Julian Hodge Chair in Accountancy at UWIST, Cordiff.

Forthcoming events

An exhibition of teaching materials and computer-assisted loarning ICAL) systems developed by projects funded by the government-sponsored National Development Programme in Computer Assisted Learning, will be held in Glosgow on November 9 and 10, Coleraino on November 17 and 18 and London on December 7. Free tickers from the tnforwation Officer, NDCPAL, 37-41 Mortimer Street, London, WIN 7RJ.

"Paychology and Humon values", a residential conference, will be held from November 11-13 of the King George VI and Queen Elizabeth Foundation of St Catharine'a, Cumberland Lodge, The Great Park, Windsor, Berks, SLA 2HP, Speakers include Dr Stephen Clark, lecturer in ethics, Ginsgow University, Finiper Information from the Programme Coordinator, Ruth Horton, at the above address.

"Microffin in business", the ninth onnual sensinar of the Microffin Association of Great Britain, will be held an November 17 at City University, London, E.C.I. Speakers include Mir Bernard Treey, Central Computer Agency, Ciril Service Department and Mr Peter Asiby, Hirector, Oxioca Microform Fubilications. Further Information from the Microfilm Association of Great Britain, Rillsh Street, Guildford, Survey GUZ SAJ.

"Calalysis: Theory and Practice.", an

deutlot conference, will be held
a November 11-13 of the King
arge vi and Queen Elizabeth Foundar
a of St. Catharine'a, Cumberland
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and Horton, in the above address.

Alleroffin in business', the fluth
initial sendar of the Microllin Assolation of Great Britain, vill be held
in November 17 at City University,
andon, C.C.J. Speakers include Air
Sernard Troy, Cruital Compatit
Agency, Ciril Service Department and
in Peter Ashy. Illrector, Oxfocd
Microform Publications. Parther information from the Microflin Assoctation of Groat Britain, vill be held
in November 17 at City University,
and registering the programme of the Microform Publications. Parther information from the Microform Publication of Chemistry of Liverpool and Dr. A.

Microform Publication of Cally information f

OU programmes November 5 to 11

Sunday November 6

Thursday November 10

Bac 2 17.88 Open Forum—23 The pro-school child; All in a 0 ay's Work (1912; prog 2). Friday November 11

RACIO 4 [VHF]

8.30 Proparing for \$\text{elonco foundation course}\$ | 18.10 Proparing for \$\text{T100}\$ (Technology foundation course) | 18.40 Proparing for \$\text{T100}\$ (Technology foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$ (Section of foundation course) | 18.40 Proparing for \$\text{R100}\$

SCHOOL FILM Parts 1 & 2 B/W 1976

Made by George King, the film records the process of establishing an experimental "school" for young people who have rejected other forms of education.

Part I talks to parents, teachers, heads, police, kids and social work agencies (55 mins.). Part 2 shows two days in the life of the school (35 mins.). Can be shown separately.

Produced by the British Film Instituta, and bookable through the BFI Distribution Library, 81 Dean Street, London W.1. 01-437 4355.

Appointments

Universities

Dr John Treasure, group chairman of the J. Walter Thompson Company has been appulated dean of The City Uni-versity Business School. Leeds

to the Sir Julian Hodge Chair in Accountancy at UWIST. Cordiff.

Dr R. Williams, lecturer to clientistry, University of St Andrews, has been appointed professor and lical of the department of Chemistry at UWIST.

Cardiff.

Mc J. King, lecturer, department of mariament of the professor in the department of mariament of mariament of the Madical Committee of the Federated Dublin Voluntary Hospitals and St James, has been appointed to the Registry Chair of Physics of Thigh Cullege, Dublish Polyackant of the Madical Committee of the Federated Dublin Voluntary Hospitals and St James, has been appointed to the Registry Chair of Physics of Thigh Cullege, Dublish Polyackant of the Madical Committee of the Federated Dublin Voluntary Hospitals and St James, has been appointed to the Registry Chair of Physics of Thigh Cullege, Dublish Polyackant of the Madical Committee of the Federated Dublish Voluntary Hospitals and St James, has been appointed to the Registry Cullege, Dublish Polyackant of Peter Gotonby, with whom he worked on a junior clinician and research leibow.

Production onglineering in conjunction with the Engineering Industry Trailing Board and Council at Engineering Road Trailing Board and Council at Engineering (Institutions, ou November 23 at Livergood polytechnie is designed to give draughismen, design and maintenance engineers, an introduction to the relevant aspocts of tribulogy which are involved to the Polytechnic of Courtal Landon from November 18, 19, 20, Fee: 15, Applicatione to Rosanna Pocaterra, Siniry Course Unit, Polytechnic of Central London, 35 Marylekone Road, London NWI SLS.

"The forther development of transport the Corgenization of the Corgenization of Transport the Corgenization of Courtal Landon from NWI SLS.

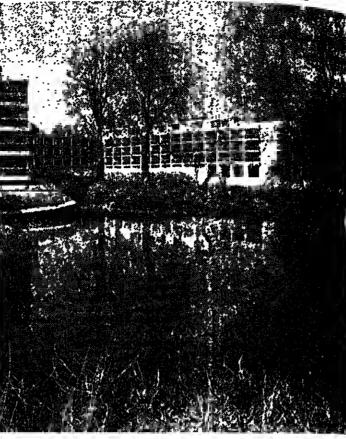
"The forther development of transport the Corgenization of the Corgenization of Transport the Corgenization of Transport the Corgenization of Transport t

UWIST

Promotion to reader: A. Brown (mechanical engineering and engineering production). Lecturers: D. W. Howker (applied blology): S. Jill (applied economics): P. M. May (chemistry): J. Mohr (fown planuing): M. W. Pendlebury (furshiess administration and arcountanry): D. G. Fowles (law): A. R. Rowlands (physics, chertronics and rher heal engineering): T. Wigham (applied blology): Tentourary locturers: G. E. Ji. Hughes, C. C. Norris (Engilsh): C. S. Laivant, P. B. Marlow (murhline similes).

St Martins, Laucuster chief Hinerialt of the Northealerland College of Education, Punjeland. Sic replaces Illina Shohiral who has be-come librarian at Chester College.

THE TIMES HIGHER EDUCATION SUPPLEMENT LINE Three paths to theory and teaching technique



Wolfson College, Oxford

as well as personal sensitivity of the absolute, nature of the teacher-learner relation to the beautiful processions.

monogenesia. Sentencing of larval Mechanical contraction of the structure of the structure

last year, Wulfson, the largest of fire pastgraduate calleges at Oxford University, hold a special course designed to prepare some of its 300 students for a possible career in higher education.

The course, funded partly by the college and partly by the Nulfield Foundathor's Sund! Grants Scheme for Indergraduate Tenching, was divided into three parts: a main course, an authoral set of practical exercises and a small discussion grant.

This division was an attempt to deal with the variety of intensis, experience and career prospects of participants. It also reflected the organizers' holder than teacher training at any level should aim not only in provide coaching in terminal awareness of Issues in reduction as well as personal kensitivity to the nature of the teacher designer and lack of firm chairmaning or waters.

replaces Illina Sillinal with his becontained in the cacine-relative from the content of the college and chartested mutulty of weekly talks accessful. Those alreaded to the college and chartested mutulty of weekly talks are session. The content of the cacine and proper contains the mutual of the Technicum of the Technicum Education Current has been appointed or income and systems, monagement of a contained and place of the school of business and public administration, Culifornia Store University, Sacromento, hos toined the teaching staff at the Anglican Regiumal Management Centre.

Birmingham

General

Birmingham

General

Birmingham

Geological sciences—professor D. It, Geological sciences—professor D. It, and the contained and place of the school of business and public administration, Culifornia Store University, Sacromento, hos toined the teaching with the contained on group session designed to the school of business and public administration, Culifornia Store University, Sacromento, hos toined the teaching with the charge of the teaching staff at the Anglican Regiumal Management Centre.

Grants

Grants lauship. group sessions were more uneque. The main course was attembed by sally successful. Those attended to

The main mistake was not

THE TIMES HIGHER ENUCATION SUPPLEMENT 4.11.77

Oakes committee on finance and management of public sector higher education

The money goes round and round

COUNCIL

"POOL"

AUTHORITIE

SUPPORT GRANT

SUPPORT

LOCAL

AUTHORITIES

AND OTHER

ENVIRDNMENT

Secretary of state nominees

Led Alexander started bis caroer as a research sychologist but speet over 30 years os secretary af the Association of Education Committees. Once described as the most powerful figure in education politics, he lost much of his power after local government was reorganized in 1974. The AEC finally cullopsed tids year.

ments.
Dr Villion Taylor, director of Lindon University's Institute of Education sluce 1972, has offered advice to the Government on manerous educations.

McG. Yeun is a Hounslaw counciller and



The system as it stands

The present system of funnting advenced further education and tender training is complex, based firmly on a system of pooling, an arrangement for sharing the costs mong the local authorities in England mid Wales.

Local authorities put in claims for funds to the pool dependent on the proportion of advanced further education provided in the colleges they fund, then the oggregate cost, which currently totale £100m, is divided among them.

The formula for assessing the size of the claims by individual institutions, which include colloges, of the claims by individual institutions, which include colloges, of saleries are pold to because of the claims by individual institutions, which include colloges, of saleries are pold to because of the claims by individual institutions, which include colloges, of saleries are pold to because of the claims of the colleges trace tracelling at this level them 60 per cent of the college's trace, ponditure is "poolable".

In a monotechnic toncher troining college or n polytechnic, where invitably most of the teaching work of the college, local authority so the teaching work of the college or not the manufaction of the college or not the manufaction of the college of the college's trace to the control of the college or not the manufaction of the college or not the manufaction of the college or not the college or not the college or not the pooling college or not the manufaction or the pool in British of the pooling of the college or not the college or not the college or not the pooling college or not the college or not the pooling of the college or not the for per cent of the college's net exponditure is "poolable".

In a monotechnic toncher troining college or a polytechnic, where involved in the pooling eriterin, almost fulfils the pooling eriterin, almost nil funds coloe from the pool. In British's 30 polytechnics, which lost year cost £250m to run and staff, nearly 85 per cent of funding is from this source, with a further cost £250m to run and staff, nearly 85 per cent of funding is from this source, with a further conting from tultion fees and other direct income and only 2 or 3 per cent from the local rates.

With the claims received and totallod an assessment is made of the size of each authority's contribution to the pool. This is bosed on a formula under which 69 per cont of the total cost is redistributed among local authorities in proportion to their school population and 31 per cent in relation to their non-domestic rateble volue.

The burden on amail rural authorities with low school tolls is

Frought offset benefit to other stroas.

However, while strongly opposing the continuation of the pooling mrangements—they ware, it said, "confusing and contrary to the principle of accountability"—the report odded that the introduction of specific grants for outhorities with higher education institutions would not be en improvement unless necompauled by stringent Government controls.

Interestingly, though, the committee stated its firm belief that academic and odministrative staff in local authority-financed collegee would favour the introduction of a national odministration is edvanced further education modellad on the UGC concept, e proposal that has been atoodrastly rejected by the local authority cosociations and their supporting factions.

Members of the committee

advisory councils for further education. Ho has boel chairing a sub-group at the Oakes con-mittee advocating more power far polytechnic

CLEA nominees Sir Ashley Branoll, eliver haired barriater and Labour leader of the Inhor London Education Authority, is also chairman at the Cohnell of Locol Education Authorities.

Mr Kennelli Broakabank retired lids year after nearly a decade os chief oducation of our of Birmingban.

North London, has just completed n year.

Mr John Barnett is principal of the Church of England's biggest college of higher education, Ripon and York St John, which has carried out a successful diversification programme.

Sir Michael Clapham, chairman of the Council for National Academic Awards, has said that people keen our making polytechnics more like universities were phrauting a "mirage".

Bushy, is a psychology dan.

North London, has just completed n year as Chairman of the Committee of Polytechnic Secretaries.

Mr T. G. Mercer, vice chairman of Haiffeld Polytechnics and programments.

Dr William Tautha, descent in Ventila Haiffeld.

nearly a decade os chief oducation officer of Birmingban.

Mt W. E. Cakristwaa chaleman of Nottinghamblie education remmittee but has an inextitution of the country of the country of the suca losing his year in May's elections.

Mre F. L. Coker. Conservative chaleman of the Association of Country Councils, spool 14 years as chaleman of Esses education committee and three years os chaleman of the ACC's own three years os chaleman of the ACC's own education committee. She is a member of the key Consoliative Council of Local Government Finance.

Mr. John Horrell, chalemon of the education committee of the Association of Councils, wiftee of the Association of Councils,

ing conference of regional further education. Ho has been chairman of Cambridgesbire since for the cakes continue power far polyteclnic for power far polyteclnic for education committee ut the Association of Metropolian Authorities and Sheffleld adulation committee.

Metropolitan Authorities and Sheffleld adnication committee.

Mr D. E. A. Jones, a turner solicitor, has been chief executive of Gwynedd County Cauncil since local government reorganization in 1974.

Mr Jack Berlogett, has been chief education officer in Essex since 1965. Before the war, be was a teacher et Christ's Hospital.

Mr G. M. Thornion, a Wirral councillor, laads the Conservative apposition and the education committee ut the Assudation of Motropoliton Authorities.

CDP nominees Dr Roymond Rickell, is director of Middlesex Welsh JEC nominee

Dr Arthur Suddaby, pravest of the Ctiv af Loodon Polytechnic, is also chairmon of the Committee of Directors of Polytechnics.

NATFHE nominees : NATFHE nominees Officers and substitutes often take the place Mr Tom Driver, a formidable and leaden-votced of the formal members of the committee.

Mr Pronela Commaeris, president of the Notonal Association nt Teachers to Purther and Higher Education is principal of Rolle College, Exmanth, which he recently helped gave from

Mr D. B. Edwards in principal of Ratherbom Technical College and a vory active momber of the NATPHE executive in the field of further education.

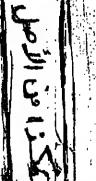
Dr Peler Kaight, senior lecturor at Plymouth Polytachnic and vice-president of the NATFIE, to DPhil in 1971 before becoming secretary of the Selonce Rosearch Conocil's chentstry tommittee.

College Principals' nominee

Mr. L. H. Farnsworth, principal of Brighton Technical College and immodiate past-president of the Association of Principals of Colleges.

Mr Dovid Andrew Davies, secretary of the Weish' Joint Education Committee, took the place of Lord Heycock, former chairman of the WIEC.





tha Rapublic of Ireland. Their num-hers—reaching almost 10 per caut of the student bady—have this year been drastically cut as a result of fee increesed decreed by Whitehall. At Coleraine there are empty build-ings and stoff morale badly needs a fillin to check rumours of depart-

so ea to penalize people opting to so outside the province for their higher education. In subliding Ulster students hove shown a sig-nificant tendency to want to remain

and lecture rooms would be filled the by students from "ucross the watch". The troublee flued and "thoy have not come.

The university'a plants have recontly been hit from combler direction, too. Colernine this manage to struct—in contrast to Queen's University, Belfost, the prorince's senior institution of higher education—a number of students from the Rapublic of Ireiond. Their numbers—rooching almost 10 per caut

students, who say it borders an complacency.

The present vice-chancellar, Dr. Peter Froggatt, and his enlicagues raject this charge. Dr Proggatt, for more than 20 years an ocademic in the university's faculty of medicine hefore becoming vice-chancellar, says: "As a corporate institution we have kept completely many from pulicy statements. We confine ourselves to our realm of competence which is higher education."

He adds softo vace that the universe programment allowed to so their are creater much allowed to so their are creater much allowed to so their

He adds softo vace that the university's governing body would he split if there were pullical discussions; they would bring to the surface underlying tensions.

nfilip to check rumours of departments facing closure.

The troubles have certainly wrought hove with the plonning of atudent numbers. For example, Queen's has traditionally taken o high proportion of its students from the lacul area. The troubles have emphasized the tendency. Ulster students now number 95 per cent of the student budy.

However, official in the Department of Education in Northern Ireland manipulate the grouts system so as to penalize people opting to consider the province for their For all the non-uligument, the olivitys cooperated with local ioilustry and its go-shead programme of industriel liaison has firm rons, but it is makkely that 10 years ago ir trould have proudly printed a list of the outside budlea using its sports facilities as an example of camput in motion a gradual process of munity service. Dr Froggatt moving towards a more compared on moving towards a more compared on moving towards a more compared on moving towards an more compared on moving the factors of the control of

so ea to penalize people opting to so outside tha province for their higher education. In subting third major institution of higher education, situated by the shores of Beifast Lough in Newtowatabley, Ulster cullege, the Northern Ireland Polytechnic, its director, Mr Derck Birley, u Yorkshireman, has played his cards well and since 1971 when places at Queen's, although it is probably caster to obtain a plece there than at an English university of comparable size,

The official Quaeu's view of the Ulster folk."

In the schools and colleges of Ulster they trhisper softly that the level of violence might be declining. Perhaps it is a good time to glunce of same aspecta of how the troubles have affected the development of colleges in the province.

As far as the New University of Ulster, situated on the north const, is cooccased the end of the transport of the condition o

Land Melchert, the young minister responsible for education and health in Ulster told The THES that the governated had no policy un Illster higher education, except for noves to reduce the litake into teacher training. The institutions are tretty much allowed to go their own way although the small scole of political life in the pravince means there is a goal deal of faceto-face contact between the three to-face contact between the three justitutions.

Civil servants admit there is some wasteful averlan nonetheless between the polytechnic and the unirersitles' courses. Direct rule cer-tuinly has not involved grasping

sira scheme of secundary education in the province.

The eleven-plus examination is to go not some inroads are to be made in the powerful and deeply entreuched selective grontoms schools. Stoff at Queen's University ore not altogether happy with a threat in the grammar schools; the phrase "decline in standards" springs really to thole lips.

The keynote of this tone d'horizon is the optimism exuded by ocalem-

is the optimism exuded by ocalemics in Ulster. Coloraino has ehottern problems, but the province expects the population of 18-year-horizm. Would a resurgent Pister



to rise mail the mini-1980s nathinglism book askanco at them the then to decline less than in the high proportion of Englished among senior acodenic? Consider words the indiversities night to benefit from there being more 18-year-olds us a proportion of the population in Ulster.

deress the verter. The universities have taken cuts, rectainly, but the polytechnic's expansion has hardly been checked.

population in Ulster.

Money is another area where of the United Kingdom addit there seems to be less anxiety than abroad? Meanwhile the make

How the great physics degree mystery was unravelled

The mystexions processos by twich players and calling for maswers in four out of eight questions. Direct flowers degree students have been clarified by a new study of 47 universition and polytechnics. It shows that traditional final examinations, of a form that has hardly changed in 50 years, are still the dominant method of assessment.

With a Nuffield Foundation grant, Professor N. Thompson, Emericus professor of physics at Bristol University, interviewed those responsible for otudent assessment as 42 universitias and five polytechnics. These separces in single subject physics.

The mystexions processos by twich players and calling for maswers in four out of eight questions. Direct interpretations or eight the mysteristic manufacture of the puper is sectionally an each paper—a component with the component of exeminers recentled from the staff.

Swerywhore else the first durit in cacli paper is propared in the same way at all the institutions he visited axeap installed axeap

the spread is law because of refretance to give very high man experlmentalist. Therefore practical work acres

carries much less importance has its unmitted weighting would indicate. This is clearly to the benefit of tweather candidates, who may be rescribed from total failure by a number laboratory mark.

Course work carries as numerical weight in two-thirds of the departments. In the remalader as average recigiting is only 5 por

faced with s list of caldless in order of total mark, die examiners have the task of drawing of tages, these are about the same all institutions: 70, 60, 50 and 1, 11a, 11b, 111 and Pasi.

All condidates who lie and paper—a composition known or partners of the control of the co

14 years later the Robbins faith remains unshaken

The expansion of the universities

Robbins report 14 years ago

a close and with it, perhaps,

In an attempt to evaluate

ushered in by the

is drawing slowly to

an age of optimism

for higher education.

the achievements and

two decades. The THES

will publish over the next

of interviews with those

who guided the development

failures of the past

two months a series

of higher education

This week Peter Scott

talks to Lord Robbins

in those years.

since his ramous report 14 years ago is summed up not in word, but in a gesture of his hands. He raises them silently but expressively to turn two Idinkers for his

For Lard Robbios, staunch tile

For Lord Robbios, staunch tineral economist and equally staunch LSE man veltose name will always be associated with the expansion of higher education in the 1960s, the enemy is specialization, particularly of undergraduate degrees.

"Most people who talk about, and criticize, our recommendation that universities should be expanded fail to reotember our fundamental quolification; that there should also be more general undergraduate degrees," he said.

He added: "Instead, I have been externely disappainted that there

lle added: "Instead, I nave them extremely disappainted that there have been more and toore specialized first degrees. The university machine seems to aim to inration don, to produce dons. This overspecialization has spread like a plague in my time."

"My time" is more than half a conjury. Lionel Robbins began his ecademic esreer os s ilon at New tollege, Oxford, in 1924, when he toliege, Oxtord, in 1924, when he was 26, and he still lectures twice a week et the London School of Economics, so few cun share his long perspective in the changing poneras of academic life. This, tagother with his chelronauship at the Councillage of Higher Polymeits. tagother with his chermannip in the Committee on Higher Education between 1961 and 1964, makes his claim to be the doyen of higher educationists massollable—although it is a role he has olways modestly

declined to play.

"Take economics, which I know shout", he soid. "Economists are trained to be experts in economist. rics or econtamic analysis. Yet they remain owere or less ignorous of political science, or the great plystal tides of bistory, ar af philo-

plystal tides of bistory, ar at philosophy and scientifle delibeds."

"This is bad for two remonts. If it is bad for two remonts. If it is the wark of the world is not done by people with first-cinse degrees in specialized subjects but by the good seconds. The target lor curicola should always be the good second. The first is a gift of God." Specialization should be left to the graduate school where

so interested and that as a result will not be so well loaked after,

"None af this is an true north af the Border," he edded. "My atople is the Scottlsh system, which is a madel of the gameral first degree. It is interesting that it is the Scottlsh rather than the English model that has been copied over-

so interested and that as a result

standards of odmiasiun shauld be rery tiarce."

The added "The evil is not merely in localing minits at a most seguilty age with n great deal of informatian that is not relevant to the conduct of life. It is that boys and girls have to chaose of the age of 14 in became humanists or scientists. This due not happen in souther country in Eurape and is actively disgraceful."

Lord Robbins has an doubt who the rulprits ore: they ore tho senior teachers "who scent to gain emoltant compensation from hoving e flourishing honoure school". He ergues that part of the reason for this relintive failure of joint and general degrees is that students know that their teachara ore not continued and the release of the recommentation of the contrary he admitted: "I was all as in the focus of the most important in the foce of his should ride the necessary pracess of seeling with a rather long teach of the expansion of interpretation in the last 20 years with which his name will always be souther conducts in the last 20 years with substantion of the most important of the most important in the foce of his already dispraceful."

Lord Robbins has an doubt who the is unrependent in the foce of his already is preceded."

Lord Robbins has an doubt who the is unrependent in the foce of his already is preceded. The responsibility of the criticism that it is a substant in the post of the most important in the last 20 years with substantion of the most important in the last 20 years with which has not terevant of the capacity of the most important in the last 20 years with which has not appear in the contract of the capacity of the nucleus has not reconstruct. The contract of the most important is not always to the criticism that it is not televant in the contract of the capacity of the nucleus has not instant in the first of the capaci

a cunsequence of the Butler Act and

But second and cleurly a much

a cunsequencs of the Butler Act said the improvements in secondary education. My spologis is simple, if we had kept nombers down this would have raised standards ood kept autipequile who praylously would have a been adolited."

In any case Lard Rabbias believes that it is better to admit pather too allow the should ride the necessary pracess of selection with a rather longer relocation. It is now one date of the best economists in the britted Stores and is now one of my clasest and is now one of my clasest.

But second and cleurly a much mare foundomental consideration in this eyes wos their belief that size had a deluminalizing effect. In his canversation he canstantly returns to the LSE in the years between the wars, a much smaller and more chief we community, his own ocations with a rather longer an institution the more difficult it becomes to initiate students late a much smaller and more contents to initiate students late a much smaller and more contents of initiate students late a much smaller and more contents to initiate students late a much smaller and more contents to initiate students late a much smaller and more contents to initiate students late and still lie feels, that the larger an institution the more difficult it becomes to initiate students late and more contents of initiate students late and odchumanizing effect. In his causers all of the canstantly returns to the LSE in the years between the wars, a much smaller and more contents. had o deliumanizing effect. In his casversation he caustantly returns to the LSE in the years between the wars, a much smaller and more cohe ive community, his own ocadenic elysium. His committee felt, and still he feels, that the larger an institution the more difficult it becomes to initiate students late a bumane ecciety and for staff, to institution the more difficult it becomes to initiate students into a humane eociety and for atalf to establish that intercommunity that is necessary for intellectual, the remember of the progress.

education in two with the history line. "We preferred in think of higher education as a spectrum in which advanced further education colleges could be fattened up and moved into the automomous university sector as their performance indicated and the need arose."

He added that the committee had believed the colleges of education, not should have been associated with mitversities in tederal orthogements. "We were so struck by the contrast between the pedagogical institutes in Russia full of strapping young men and women convinced that they were doing the best possible thing in the world and the enlieges of education here which, although they were often offering better general education that universities, seemed to affabreize for their existence."

He is not happy with the philosophy of the kinory system. It had created two different worlds. He could well understand the defensiveness of the polytechnics. They might be puid as well but they were not regarded as well as the universities. On the other hand, he could abso understand those in the tips. Wen argued that the universities had failed to provide general enough undergraduote courses and that the polytechnics might do hetter.

Yet Lord Rubbins is far from

that the polytechnics might do hetter.

Yet Lord Robbins is far from gloomy about either the experience of ligher education in the past 10 years of its prospects in the next 10. Indeed his views are significantly more rosy than the authorised rerision and run the clear risk of being branded as heresy by the Association of University Teachers.

For example, he believes that in more in the staff rendent ratio deteriorated from 10 to one to 14 or 15 to one. He pointed not that at its peak in the 1930s the LSE had a much less favourable staff student ratio, "I tron't underestimate the frightful headaches it would couse but it would not be the cut of the world,"

Fourteen years ofter the publication of his famous report Lord Rabbitts remains conservative in his assumptions shout what higher education is for hat litteral and even pragressive in his belief that its civilizing influence abould be shared as widely as possible.

His faith that expansion, the one

is necessary for intellectual progress.

"I envy the new universities that have not got their full complement", he said. "A lot of concentration on organization is necessary to remedy the problems that orise from size. I am a great believer in a quest-collegian system olthangle it is clearly impossible to create onew Oxfords and Cambridges in the twentieth conting."

However, he does regret the Government's decision to establish the polytechnics and divide higher instrument, but a humane principle.

Theatre-in-education brings jobs to Doncaster



Two students from Doncaster Metropolits Institute of Higher Education have just wan approval for a job creation project which will take theatre into the continguity.

Miss Margaret Hulson; aged 23, and Mr. Ian Crossley, aged 26, drama of the institute and Miss Margaret Hulson; aged 26, drama of the institute and Miss Margaret Hulson; aged 26, drama of the institute and Miss Margaret Hulson; aged 26, drama of the institute and Miss Margaret Hulson; aged 26, drama of the institute and Miss Margaret Hulson; aged 26, drama of the institute and Miss Margaret Hulson; aged 26, drama of the institute and Miss Margaret Hulson; aged 26, drama of the institute and Miss Hulson hopes that the project is simple. We want to bring in was doing my teaching practice into the conciliant of the institute and margaret in the some time to crossley, who studied English and drama, baya, had, to agree that they will not receive Equity prospect of the dols queue, and at the some time bring some benefit to Doncastor. Last yasr they began of £50 a weak each and there is of the content of the conte



Mirror, mirror on the wall, who is truest of them all?

Farlings: A good boy doesn't wish that any the constant of the process of significations. (e.g., 4): But he may THINK it.

Father: But that isn't good.
Hans: If he thinks it, it is good will the same, because you ran write it for the professor.

Freui's comment: Well done, little llass I I could wish for no batter maderstanding of psychoanalysis from any grown-up.

In recent years, the qulet problems of the relations of the two networks, relations any grown-up.

In recent years, the qulet problems of the relations of the two networks to one annually the two realmy the signified to the signifier in the process of signification. The two realmy the signifier and the rhains of the signifier in the process of signification.

solving and clinical tinkeeings of psychoanalysts have been enlivened by the importance of an obscure and orrogant French enalyst, Jacques Lacan, in this aericle i intend to give a briof exposition of some of the ideos that have made Lacan perhaps something more significant than Just another herence from the psychounolytical orthodaxy.

Interworks to one another, facan is thus attocking any notion and the primary as the birth of the word. The "naming" of things is not the primary functing of the sign. Rother than being primarily informative, Locan sees innginge as spoken in order to elicit a response, and the response that is wished for

consider than just another herefore from the psychounolytical orthodaxy.

Locan has portroyed most of the past 50 years of psychoanniytic research as simply indicating the blind elley down which psychoanniys would never have passed if it had remained true to the discoveries of its frunder, Siganand Freud. In particular, he altacks the hegenmay of American psychoanniysts, which was established with the flight of analysis from Central Europe.

Paradoxically, however, he seems to have brought about 0 situation in France sindlar to the cultural and financial success of "the shrink" in America inquediately ufter the Second Wurld War. The analyst Is now har more conspicuous, in French cultured than in two different senses. In French culture than in the field of child therapy (int portlethur through the theories of Malonio Klein and Anna Freud).

Lacan, in fact, has become o cultured anti-hero in Fcance. Why Is take so? Apart from a sovero attitude towards therapeutic promises of lope oud freedom—so discon-

of child therapy (it porticular through the theories of Malonio Klein and Anna Freud).

Lacan, In fact, has become o cultural auti-hero in France. Why is ilds so? Apart from a sovero attitude towards therapeutic promises of lope oud freedom—so disconcerting in someono who would appear to be a "man of caro"—of great interest in Lacan's work is the tude towards therapeutic promises of hope oud freedom—so disconcerting in someono who would appear to be a "man of cmo"—of great interest in Lacan'a work is the novel realignment and foundation that he gives psychoanalysis in its relations to other forms of knowledge. Put simply, Lacan incates psychoanalysis with linguistics, grammar, rhetoric and pootles—that is, with the sciences of signs—rathar than with binlogy, sociology or psychology, the last of which receives almost as nanch scorn from Lacon as at hid from Freuti.

The cectre af the psychoanalytic concern, he reiteredes over and over again, must he language, speech and the position of the great in "things". Secondly, Lacan hopes to reoriem jusychoosanalysis around what he regards os snalysis around what he regards os snalysis around what he regards os snalysis around what he regards os the can come to sneath null or subject morks himself with the scal of wedlock."

At issue in psychoanalysis is the relation between speech and hunguage. Here Lacan—in enumany with other French intellectuals which draw upon Saussure's work —emphasizes the passively of hand or passivity of hunon boings lit relation to language. More so then any other human institution, human beings must nequiesce to the forms of danguage presented to them. This is not to deny the activity of the child in learning his language. But

Language is seen and hunder of draw upon Saussure's work —emphasizes the passive of the relation between speech and hunder of humon boings lit relation to language. More so thon any other french intellectuals which draw upon Saussure's work —emphasizes the prench of the child in upon sausure's work —emphasizes the psychomalysis is the minute scale of work humon between speech and hunder of humon beings lit relation to danguage. More so thon any other french intellectuals with draw upon Saussure's work —emphasizes the psychomalysis is the minute scale of work in the issue in psychomality in the relation between speech and hunder of humon beings lit relation to lan

changes in "things". Secondly, Lacan hopes to reoriem psychosnalysis around what he regards os the first of the human sciences to have found solid foundations and explanatory power; linguistics. In the listener, so is "speech is a gift in the he raties upon the work of language". Words are stolent lenguage is there as a privileged analyst, where there is a subject model of a system of unconscious and the malyst, that this relation of language is that this relation of three-the subject, the other to whom his speech is offered and the

The science of linguistics invoked by Lacan was founded upon Saussure's concept of the "sign". The signifier or spundimage (S) and the signifier or spundimage (S) and the signifier or spundimage (S). The signifier or spundimage (S) and the signifier or spundimage (S) and the signifier or spundimage (S). The discovery that symptoms are for the sign: S/s.

Soussure emphasized two features of this definition of the sign. First, the arbitrary relation of S to s—thero is no inherent convex ion between the sound represented in writing by "horsa" and the concept or image of "horsa" and the concept or image of "horsa", Secondly, the linear nature of the signifier; which to unfolded in time, discourse therefore consisting of chains of signifiers.

Lacan stressee the "bar" between S and s in the formula, representing



Speech, in failing to be given, has reverted back to being lunguage, a simple and permonent structure. Using the Sanssurian scheme, the phrase "simp in the face" has fallen to the level of the signified, and the symptom—the very piece of flesh affected—is its signifier.

To Lacan the bar between S and To Lacan the bar between S and

ficution: repression. Lacun, however, orgues that this falling of the signifier to the level of the signified is what is known as mendphor: that is, one wind is substituted for matther tuted for another, unite expected word. The new signifier—the symptime—is o accuplor. One signifier replaces, ar substitutes for, another in the chain.

There is another relation of signifier to signifier, the movement along the chain from S to S', known to the literary critic as metonomy, in which one uttribute strains in for the larger whele to which to the the larger whole to which it le-longs. For example, in War mil-Peace, the characteristic: "hare shatdders" rejectedly evokes the Countess Bezidiov.

For Lacun, neconjuly constitutes the pressure of desire towards an absent object. The metonymic relaabsent object. The metonymic relation hetween words constitutes thesire by always evoking something "beyond" with is stated as being the "true" (though misayable) abject. Between them, then, the rhetorical figures metaphor and metodymy constitutes the primary relations of the subject to signification; repression and desire.

the us a desire for smoked samun, through passing through the "defiles of the signifier".

Perhaps this is just minther way of studies that human needs are allways detached from binlogy and determined by continued to the samuel. determined by cultural forms, indeed, that human needs are human meds are human and human meds by the transformation of needs by the signifying clinin is the production of demand.

analysis as the true and only foems of the science of psychoanalysis. Each of the fundamental concepts are grounded in the speech of the subject and the analyst, and in this respect Lacan's theory is radical. Most psychoanalytic theory has taken the madylic process us a given, and has then theorized upon the basis of findings taken from it. The movement is reversed with Lacan. All described statements come back to the speech of analysis; his theory of the subject is nuly preparatory to understanding the basis of findings taken from it.

The movement is reversed with Lucan. All degretical statements come back to the speech of maly sis; his theory of the subject is anly preparatory to understanding how the subject comes to realize himself in a true speech and in a history in relation to his future. One of Lucan's more widely accepted concepts, the mirror-stage, functions in except this way.

The significance of Lucan's theory of the mirror stage is that it has being of the subject is "exceptic," as he calls it, questioning both the Contours and Descartes and

The significance of Lacan's theory of the mirror stage is that it detirones the rego from the centre of knowledge on the perception. The egn's renim consists of imagination and fantasy, especially concerning its nwn nature; in contrast, abjectivity is introduced by the intersubjective structures of language—the symbolic. The egn is created in the first act of ulienation through the identification of the "self" as seen in a airror. Knowledge and perception, hased upon the ego, are thus built upon a miscognition of the real mature of things.

relations of the subject to signification; repression and desire.

With desire and its two relations specifies more closely the relations specifies more closely the relation in the one hand, and theory on the one hand, and the bid his like in the indigical interval in indicates in the indigical interval in indicates in the indigical interval in indigical interval indigical interval in indigical interval indigital i

ally ensured by the illustry unity of its image in a mirror. This image is taken as constituting the "1"—the first component ar image of the self. From this point on, all taker objects are modelled upon the lirst love-ubject, this image of the "self".

Hence this image, a part of the imaginary, is the ego, ar more accurately, the ego-ideal (what is the end, be for the imaginary, is the ego, ar more accurately, the ego-ideal (what is the end, be for the imaginary, is the ego is founded upon an olienated (beenuse extraneuts) marreengalton, upon an illusory unity which is itself the first split, or cut, by the unocdered homogeneity of reality. (As Lacan puts it "There are no below he works ing moterfal): speech.

signifying clinin is the production of demanul.

The other person satisfies needs, but also becomes privileged in so far as he or she can deprive the subject of satisfaction. In coase-quence, irrespective of the actual state of need, demands ore made that this power will not be exercised.

Love is thus conceived of as the withholding of the power unt to satisfy need. Of course, in reality, the Other does not possess such whiseline power; hence the demond for love must always be thwarted since it always lonks "beyond" the signs of love that ure in fact proffered.

This satisfaction of needs does not, therefore, represant the fulfilling to doment in the content of doment, which has un unconditional element familiar to signs of love expartenced doomed attempts to find final and absolute signs of love. Demands, because they refor to things and gliven in biology, are lacapable of being met.

are those of speech and language—even the silences and "non-verbal" interventions of the subject are taken as punctuation points, as the subject are taken as punctuation points, as fread argued to The Papelance are always three terms involved the ega, the other, and a locus from which language is emitted.

Indeed, adaptiag one of Frence definitions, Lacan defines the unconscious as this third term, a message from the Other: "the unconscious is that part of the concercie discourse, in so far as it is transindividual, that is not at the dispusal of the subject in tecsablishing the emiliality of his conscious discourse." What is repressed is ready, walking, in a place that is not accounted by the subject, to be said. The inconscious, says, Laca, is structured like a language.

Any therapy that shifts any from the tulking-cure—is altacked for avoiding the specifically cultured at issue of language from the tulking-cure—is altacked for avoiding the specifically cultured level at issue in the deformation of language that support symplass, since such a therapy, in emphalizing non-verbal signs, it taking connunication to be should be crough in information. The very edgence of neurosis should be crough in information. The very edgence of neurosis should be crough in information. The very edgence of neurosis should be crough in information, not should death, but its contable por the specifically on the passign in passworal to nvoid death, but its contable por the specifically contables on the court of the contable por the court of the co

may be an evocation, an incomming a passworn to avoid death, but it is

he returns the analyst to the working moterial: speech.

However, in returning psychomalytic therapy to the realm where it helmany—rheturic—Lacant has introduced a now and obscure rheturic in act us the catechism for a new generation of word-plsying devotes.

Lacan is uncompramisingly and his intellectualism points, not swards maddeningly intollectual. And his intellectualism points, not swards market-place of promises of liberation and freedom, but towards it resumation of the pessimistic selection in the philosophy that market ironlead philosophy that market philosophy that market philosophy ironlead philosop

ishon of ther to indicate the process of the first alon the partient recognition and incomplete the patients in the patients i

Back-up needed to exploit the new art of the possible

In the law schools might say, no reasonable man can doubt the excelent overall quality of edurational broadcasting over the years; the only problem for colleges has been how to make adequate use of what was on offer.

In my appointment as principal to years ago, I was disuppointed in see relatively little use being made in college of some excellent muterial until twas firmly pointed out to ane that the incompatibility of broadcasting timos and college time-tables made gadio or relevision programmes very difficult to use to any extent, even given sufficient equipment.

Portunately the increasing availability of theap radio cassettes and approach of reasonably priced

equipment. Portunately the increusing availability of cheap radio cassettes and eventually of reasonably priced video-tapa systems, made it possible to make some very ceal use of what was no offer. But the situation is still far from perfect, not only because there is not enough actual hardware about the place, but also because money far replacements is now harder to find.

the inhibiting factors, including the imbility of lucal education anthorities or colleges to fluore such simple things of the blacking enough power points.

Experienced students of public

expenditure techniques will know that even in times of financial plenty it is cosier to spend on same headings than others for all kinds of good and had reasons. Similarly when hardware, blacknuts, and so so are available, it has been difficult to fund enough technicians or para-professional posts to look ufter equipment "vandalized" by ten-chers, to make recurilings and to set up hardware at the eight place and the right time. It is also important to reolize that even with sufficient horsworking

technicians, there is still the diffileges can use recognided broadcasts.

h is to be hoped that there will be further discussions between the BIC and the TTV companies on the one hand, and the many coutribu-

radicing costs in education by greater use of centrally produced

on the equipment and annigh backop to easure its proper maintenance
and availability. After all, it is
slightly unrealistle to expect
teachers with at least 20 hours' class
contact and perhaps considerable
marking and preparation, not only
to apput the processory material has spot the necessary material but also to record it, sot up the equip-ment before class, and then disbut also because money for replacements is now harder to find.

Even with the recording equipment which colleges have there are other inhibiting factors, including will rendly testify that if there are tion orany problems for the teacher,

the service will not be used.

Very often a change of unfinde
on the part of teaching stuff in
material prepared from other
sources is viso required. There are any broadcast material for a number

> BROADCASTING HIGHER EDUCATION

tors' organizations and associations on the other, with e view to seeing whether the whole question of recording off-nir can be extended in the interests of education. Perhaps the way ahead is by distance by the Whitford committee on copyright. When "hnrd-llners" talk about tended to use all or parts in broadcast motorial where it fits feducing costs in education by greater use of centrally produced.

All of this merely highlights that

inc of monocasting, which does not just mean how to handle a video-tope recorder or a projector. It also means teaching the use of broadcasting in association with the tollege courses, which can be more complex than it first seems.

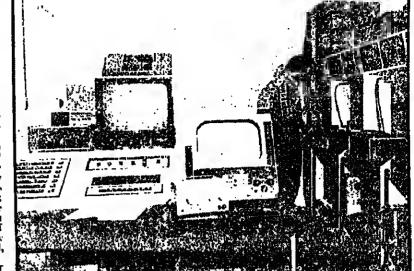
It is relatively straightforward to use the craft environment. TV

use the craft engineering TV courses specifically designed by the BIIC to complement nationally organized and recognized courses traditionally taught within colleges; this is made even easier by the BBCs extensive rousultations with planning and indeed during use by their splendid, if overstretched, further education ligious officers. Greater difficulties arise over hroalcasts on more general topics—perhaps coacerning ort, drains, literature or politics—when the reacher may be trying to integrate them into a locally designed course which perhaps has no end examination, let alone a national qualifica-tion, with its implied conscosus of opinion on treatment and objectives. Nevertheless this very looperant

technique is likely to grow in significance. But suitable training again means more money, and there la a great risk today that much inklul hivestment in equipment will go to waste because of lack of re-sources and time for proper train-lng of teachers. Apurt from the common problems

Apurt from the common problems of using brondcasts in college, there is little to complain about in the quality of the output, given the difficulty of producing for such a wide and demanding audience. Nu doubt we can all select particular programmes which were less than appropriate in our case and appropriate in the content of the complaints. appropriate in our dwn needs, but the general standurd and enureot is excellent and the output relevant — perhaps because both the IBA and the BBC go to a good deal of trouble to emsult teachers vio national savisnry committees, local meetings, and visits from Ilaison

Perhaps more impured in the fature, broadcasting has an equally useful and ut times rather oform exciting function of educational stimulation and benevotion both in curriculum organization and technique. Perhaps the most lapportant single significant demonstration of this has been by the Open University where, apart from anything else, the mere exposite in the teaching methods of so many university leval teachers often talking to practising teachers in schnols and colleges apast have had an enormous leges must have had an enormous



ladeed, the function of broadcasting in general as a showense for good or advanced teaching is an under-rated contribution to insport that this earn happen in reverse, and the trade teaching as a whole under-ruted contribution to in-service teacher training as a whole, And surely many of the changes in the prospectus of colleges and extramural departments in the last 30 years must be a direct reflection of years must be a direct reflection at the way in which high quality broad casting has usurped local mediocrity in subjects like economics, politics, current affairs, and the urts.

Current affairs, and the uris.

More directly, in an attempt to improve their near effectiveness, the BiC and the enameretal companies have stimulated innovation in the field by inviting cooperation from the colleges. For example, last year the BBC TV progroume. Dressmaking for Beginners was runs in sssociation with a series of dressmaking clinies set up in the slope and factory canteens around u local college.

sliops and factory canteens around u local college,
Such partnerships between central producers and local users will undoubtedly be a major development in the foture. For some time Brian Groombridge, la particular, has been promoting the contept of value material designed for general untiput as resnurce material for local and regional educational initiatives.

If the proper techniques can be alevaloped to take advantage of this appranch, then we shall have a very eignificant cootribution to our resources, not least because the output must attract some of those put must attract some of those montraditional" students we are all valuely accking in ceach. Given that their direct nutput is limited in cauparison in that of the BBC the commercial companies are neturally

had two tipen University packages used by the general service as a result of their interest and quality.

My owo major criticism of the broadcasters is that they have not set really tried to promise an alternative. native, permanent charational advisory service for adults. Sorely the response to occasional plane-ins on Tursday Call and The Jamus Young Show, together with the success of Reports Action on televisinn, would have convinced the hardest of broadcusting executives that there is entertainment and serious educational content in a properly organized and presented

series.

From a college point of view, one relationship with the broad-caster is one of the nume pleasant, as well as satisfying, partnerships as well as satisfying, partnerships we enjoy. In fuet the colleges have little to lose and a good deal to gain both in material and inspiration and we have not yet exhausted tha possibilities for compercion in improving the quality of buth nurservices and in accolerating the eater of inversion.

If there aver is an Open College, it could well be an extension of the broadcasting and college relucion. ship, perhaps on the basis of lucal or cegional consortia.

Next week: Phillip Elliott on

David M. Bibby argues that more thought is needed about the industrial training period of sandwich courses

Are we reproducing the divorce of knowledge from experience?

quality of management.

or issue which is likely to be come increasingly mpoored in this context is tha degree leval sandwide course, this issue is significant further and interest in the course, as it is not the course of the cou

capital investment appraisal, which would provide such an important link with his acadenic study.

Thus, even within the sundwich course setup, we are perpetuating the distinction between locademic knawledge and industrial experience. If we accept the notion that the application of a body of knowledge to industrial decision-taking the student as an approximate the sundant as the sundant the

Considerable academic and sociol adjustments ore required of students in bodi cases but the "thin" sandwich course seems particularly prone to these difficulties; indeed most new courses are of the "thick" type. If the dendse of the "fide," sandwich course is for course educational "casement in the office of the course is for course of the course in force of the course is for course in the office of the course in the office of the course is for course in the c

There has been a great deal of discussion recently about the quality of British management and the state of engineering as a profession. Many observers feel that the low status of engineers in many decision-making hierarchies is itself an explanation for the seemingly poor quality of management.

There has been a great deal of discussion are subsequently allotted.

Fur example, while a student with subsistance of engineers and the state of the way toward solving this sonce of the way toward solving this spent in Industry, while the latter involves one whole yeur of the four involves one whole yeur of the four involves one whole yeur of the faur involves one whole y illustrated during the training period, and not left ontirely to the



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The alternative for Oakes

For almost a year the committee examining the monagement of poly-technics and colleges under Mr Oakes, the Minister of State overtrying to square the rircle—or rether one group on the committee, hroadly the local authority interest, has been trying to keep the square strictly rectangular, while another, the local committee. the academic interest, has been struggling to produce a circle. When they have resolved their differences and the report is finally published —hopefully, snys Mr Oakes mt the end of this year, more realistically hy early next—the result will pro-bubly be on omidy and rather irre-gular hexugon.

From the start rice committee was obliged to pursue two quite distinct goals that have not been easy to reconcile. The present system of control of ndvanced furdier education had to be reformed: It was, after all, because so many people regarded the existing arrongements as both outain and inefficient that the committee had been established in the first place. Yet the brief that the committee received from the Department of Education and Science and a stronger than local science and a stronger than local Science unde it clear that local surburities must retain a substantial role in the provision of higher edu-cation omside the universities. In other words, moke things better but

change as first as possible.

At first this seemed a wise decision, It seemed beyr to direct the attention of the committee in the detailed technical questions con-terning the management of advanced further education, about which agreement might be possible annung the various interests. There was a genuine tear than if the committee tried in grapule with the bronder conceptual issues which problems there is the state of the stat bronder conceptual issues which onderlay these technical questions it woold blow the lld off an ideological Pandora's bnx. Henca the rather restrictive DES brief which clearly corresponded to Mr Oakes' owo pragnatic instructs. Hence also the roller nervous concern on the purt of the universities that Oakes should not raise too many questions. should not raise too many questions that had implications right across bigher education.

In practice it has been difficult to cinicaln the Oakes enquiry with such narrow limits. Almost against its nwn deliherote intention the Oakes camoittee has become the most impurious eversion to bighor

to the most bosic question of sil:
what is higher education or adranced forther education, for? The
Robbins committee ignored this question because they believed the enswer to be self-evident, while the Oakes committee does the same because they fear it may wreck what shares there is of reaching agreed. Recoupment would be change there is of reaching agreed.

In the case for Robbins in 1963 I this was merely a shortconling; in the case of Oakes in 1977 (1978?) It is a fetal flaw. The Robbins committee was partly right? the purpose of bisher particularly wifer.

cation most in need of a bost inday. Or they may instead divide institutions into sheep and goats. This would of course inevitably be cupricious and it would have precisely the same effect. So the narrow academic interest would be required interest would be found interest.

Inst us surely the local nuthorities will probably he granted more rather than less power over the development of the polytechnics and colleges. Buth the models being discussed by Oakes envisage the local nuthorities courriboting in co. 25 per cent of the cost of running dieir colleges from their own funds. In practice this leaves them with the decisive power because most improvement takes place at the decisive power because most improvement takes place at the decisive power because most improvement takes place at the decisive prover takes of the norder of the decisive prover the decision and to which the Government and occasional necess to mention of the decision of the the decisive power because most improvement takes place at the margin. It is the extra 5 or even 2 per cent that can contribute to the success of an institution. Just as success up at the same order as surely a cut of the same order can have a disastrous and debilitating effect as the universities have found out the bard way in the past four years. So the effective power of the purse will be retained be the head authorities. Indeed it may be worse than that becomes the local authorities may feel that the creation of a national body and the tion of a national body and the existence of national funding allsolves them from their previous responsibility to care for their own colleges. Power without responsibility is always a dangernus formula. Cup this all with a national hody that may be little mare than a rint of special interests and the recipe for o disastrous solution is counlete.

In practice at has been difficult to cuntain the Oakes enquiry with such narrow limits. Almost against the recipe for o disastrous solution to Oakes committee has become the most impurant exercise in higher education planning, certainly since the creation of die polytechnies ond parlings since the Robbins too, the present committee hos poid little intention to the most bosic question of all present committees hos poid little intention to the Robbins committee hos poid little intention to the most bosic question of all present committee hos poid little intention of the present committee hos poid little intention of the recommendations, committee hos poid little intention of the recommendations committee hos poid little intention of the recommendations of the most bosic question of all recommendations committee hos poid little intention of the recommendations committee hos poid little intention of the recommendations committee hos poid little intention of the recommendations and the recipe for o disastrous in the recipe for obtination is complete.

There is a hutter way. As it is impressible to superimpred and the recipe for objective in the recipe for objective in the recipe for disastrous in the recipe for it of the recipe, the superimpred of the recipe, the superimpred of the recipe. AUT pay claim in the recipe for two it circle, the best policy is to superimpred undercipe. AUT pay claim in the recipe for two it circle. Authority control do not need to be enemies. First, local or the intention of the recipe for other recipe for other recipe for two it circle. Authority control do not ne whelming national importance, these could he "udopted" and paid for entirely on a direct-grant basis out of narional funds. But this would be chanco there is of reaching agree- expected to take care of the general

ured to equalize the burden among local authorizes.

Whis need be no more threatening to polytechnics than a schame under which local authorizes are loft with discretion authorizes are loft with which local authorities are loft with mittee was partly right; the putpose of highor, particularly university, education was self-avident. Uncorrection over the crucial 10 or 25 per cent. It has the great advantage the continuately for Oakes it is by no means self-avident what advanced further education is for. Some soe it as an "olternative" untilonal system to the universities; others estime pinnace of further education, locally based and Industrially origonics and major colleges es university "seadlings" rather as Robbios did; the Committee of Polytechnic Directors oven tries to convince us that it will all be clear provided we pol enough effort into Biblicalesque exeges of a fety improcise and opaquo phrases in the 1966 While Peper.

The result of the opperent foilure of the Oakes committee to educres itself to this fundamental quastion of definition, will, be,, a winder and content of the co

LETTERS TO THE EDITOR

Priority for policy studies

on the public policy problems of higher education are the minds of independent individuals without dominant political, ideological or institutional commitments, but with political commitments, but with relevant experience both at home and overseas and a personal in-terest in the subject. These individuals are neressarily scattered widely among British universities, industry, commerce and elsewhere and include vice-chanceliors, aca-

dentics, administrators, employers and employees us well as professors and employees as well as processors of education.

Twenty to 30 such columteers might be harnessed together and meet periodically in formulate u programme of studies of particular higher education policy issues and accurate for the processors.

arrange for two or three of these

government csn say that, while the cinim is justified, its honds are the by tha 10 per cont waga policy. Additionally, the government can claim consistency with the police. May I therefore suggest a convenient way of sadsfying both parties?

Sir.—May I pursue o little further the dealer of the thought yan put furvard in your leader. The academic interest on the committee will win the educational organization which they deserve to lose, while due not anotherities and their nilles will win the alministratice argument which they equally deserve to lose. In short the worst of all possible worlds.

In educational terms the Oakes exercise is olimist certain to sharpton the division between alvanced and their allies will win the division between alvanced and the including the present system based on the level of courses, which will exacerbote the built-in prejudice against technical and other "lover level" courses—arguably the level of courses—arguably the arguable arguable arguable arguabl

tion of the second report, published just before the group was disbanded in 1974 on the retirement of Professor Niblen and the termination by Lundon University of his chair by Landon University of my cash, of higher education, was to are the cention of what they called a "Think Tank" on higher education.

Nabody was then able and willing to pursue the proposal. Perhaps this is an apportune moment to

Once created ou a sulid institu-tional and fluencial foundation, a centre on these lines would no doubt find other responsibilities, including commissioned work from rarious budies at home and over-sons, pressed upon it. Yours faithfully,

R. C. GRIFFITHS. Director, Inter-University Council for Higher

Education Oversens, 90 Tuttenham Court Road,

ment will also be satisfied locause thent will also be satisfied locause the salary increase for the year is only 10 per cent. The only dismivininge of the scheme is that the lump sum payment from backdating will be forgone, to be received in the intermonths of the year. At the end of the acquinining year, my new acquiations can be based on the new salary scoles which, by the government's own rolition, are the correct ones. correct ones. Sir,—f take issue with Martin Felication's article on the South African hook import day situation (THES, September 30). There is no merit at all to be found in this draconian piece of legislation, which is all to nique in the world. To tax known ledge is indefensible, to find positive features in such a process additive to injury.

As the practising university librorian of the of South Africa's largest universities I find that the largest universities of integer, led to chaos in the acquire

Yours sincerely, A. J. BUXTON, Division of economic studies, Sheffield University.

Glasgow standards

Sir,—David Walker writes of Glas-gow University: "The university scoops the pool of Strathelydo secondary schools...the fact that Negotiotions for the 1977/78 Increase ere likely to drag on for look first to Glasgow University some months and then, given the government pay policy, settlement then many others" (THES, Octuber 28).

government pay policy, settlement will be for 10 per cont, hackdoled.
A mero important factor than the to October 1 wild a stotement by the government, to save face for the AUT, to the effect that the rightfol increase will be pald as soon as possible.
However, if the government reelly believes that o risa of more than believes that o risa of more than pass in another language for students in all faculties whereas Stroth-telydo University's minimum entrance requirements accept O-level y English and do not require a poss English and do not require a poss in another language.

This may, in part, explain why Straibclyde has larger postgraduote numbers thon Glosgow. It is possible to proceed to postgraduate studies in the former with general educational qualifications that would preclude matriculation as an undorse or postgraduate in the lutter.

(Mochino Readance we we hencit directly from a measure were h

or postgroduate in the lutter. Yours faithfully, HECTOR THOMSON,

Road, Olasgon

scales of social welfare Student vouchers

arand side, the anthorities coal

vary this concher to give sudent a financial incentive (absent a

ours faithfully

ALISTAIR VOUNG.

Department of economies and

management, Paisley College of Technology.

tions process and made on idjost-crasy out of a situation where he government sobsidizes a university and he illicent her some 85 per Cent

ond its library by some 85 per Cent ond then coolly tilsengages to extent of 15 per cent. All appeals to the Minister of Finance have fallen on deaf ears.

I will condone the other missis errors of foct in Mr Feinstein's article, and confine myself to the criricles that the future of MARC (Mochino Readahle Catalogue) and of library connection can it no

librarian, Iniversity of Witwatersrand,

budger, led In Ch

South African books

Sir, — In your leading and the obitories, on measy first the conchers scheme proposed by and myself. There are of care and appointents of rouchers of care and appointents of rouchers are not the time is yet and appointents of rouchers are rational or ruled to the case of Richard Titmass have in agree to differ; on the problem is compounded by the exaction, or an whether the case of makes and provide whims to impredictable whims to may refer a subject that during his lifetime his set to reappraisal by other scholars and your call and administration. This definition his lifetime his set that he discipline of such and administration are set of the form of the development has a demice of the development and administration are such his set that the development has a demice of the development and administration are such his set that the development has a demice of the development and administration are such his set that the development has a demice and partly by the second his set that the development has a demice of the development and administration. One major issue concerns &

One major issue concerns a formus.

In the which a voucher shall be sufficiently and have supply more response to demand. You soggest that "it should be sufficient choice ideal and hereby open my entirely new present demand for places to exceed their supply. But one of the sufficient and increase of intellectual anguiry. In his past comparisons like this ore leading; for a number of year leading; for a number of year leading; for a number of years the ideal converses have been overed some chorses have been overed science and engineering—have been sufficiently dimension to his science and engineering—have been nuclersubscribed. new malytical dimension to his

her the obitories, on intensy leave usually follows the prema-leave usually follows the prema-re denise of a green scholar. It

True, there are signs that end subject.

True, there are signs that end subject.

When writing about the social subject with a mine in increase. But we argue the subject subject would not exactly be first two reasons.

On the supply side, inclined would a measure of real hope the twentable to under greater pressure a prune departments or lacting which could not attract subset (and hence income): an its better important element in the development of Thuruss's scholarmother important element in the development of Thuruss's scholar-silo and one which became increas-ling dominant towards the end of mud hence income); an the 6-

presont) to apply for underab scribed courses though to be "sucially useful". The Gift Relationship Is on essay in international welfare within which he set out what he believed which he set out what he believed to be the distinctive welfare ethic of the social market with its culphasis upon the "universal stranger" and the integrative functions of social policy. I suspect, however, that is the less analysis Titmuss's live genius lay, not so much is Finally useful."

Finally, you impute to use a maire helief that man the manner is wise while man the decrease is simple. This belief and cortainly los naire, but we do so know unyone who hadde had we suspect there may be said incline to the opposite follows believe than most people as we the genius lay not so much he making explicit the interunt bund dimensions of social welfure hun in believe that most people, as essumers or as ritizens, have said telligent appreciation of their ora bis searching exploration of the cule of social policy in the recovery ond telligent appreciation of their ex-interests and are well able to mis-scusible chaices; that both the marker and the pulltical mechanic often fail in allow their prefere-ces abequate expression; that the present system of financing higher education makes tun little use of the nurker, and that a course scheme would be a letter though unt a perfectl method of giving morely the higher education which they want. asiatenance of national conscusus. modelenance of nutional conscisus. Much of the sense of moral purpose which iospired Tinunes's best work finds its parallel in the tertings of R. H. Tawney. In many says Timus inherited Tawney's Jamuss inherited Tawney's Jamus inherited Tawney's deah of a now socialist commonwealth and his policy rhoices can be seen as practical directives toward that end. Towney's socialism and the end. Towney's socialism and the end. Towney's notationally a fallar thinker there are many norts colar thinker there are many ports The Gift Relationship which have seediest affinities with the tradies of Christian socialism. The Cift Relationship is an asser-

of the moral superiority of one m of welfere provision to the first based on Tilmuss's premise is soiel policy extends opporties for oltruism in opposition the possestive egoism of the martiple. That terms no which is donated and received are as on of the old statement of the contract Much of Tirmus's published with the professes considerable potential which can be elher nurdest not welfare the consolic market.

Much of Tirmus's published work and neved os o continuous first and issu major contributions that we consider Titmus's published work can be read os o continuous indictiment of the volues of private and more efficient but the profess of the published work and never on the professes of his piliusophic and integration at its therefore easier for us to form a large stem which has would have schewed then to identify the out of the system of a scial structure, as well as the professes considerable potential for altrustic helavior of a structure of the produced within the economic market.

The attrustic helavior to the system of values of their the control of the produced within the economic market.

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The apparent direction of this approach to welfare is remaine

lest case because it goes beyond implications of family, comaltrulsm finds irs rrue and expression.

s as ro describe a nolarity of ments and motives, which in

Robert Pinker discusses the contributions made by Richard Titmuss to ideas about social policy

Altruism's champion in the

and egoism are morginal phenomena. The family mue inspire a form of almaism which is very limited, but which nonetheless motivated but votes all of us at some time and may often lead as into conflict with redistributive social pulicies. A dicho-tomous model which ullows familial nitenism to be substituted under the heading of "egoism" is misleading. When he writes primarily as o

social historian or us an analyst of specific social policy issues, Tinnuss accords the family a very central position in his moral universe, and shows much sensitivity towards the nothinglences of feeling and loyalty which the family generates as a social institution. When he writes primarily

philosopher of social policy, these saves of feeling and loyally tend to herome lost in a dichuronaus divi-sion of the world into egoists inspired by the values of the econo-mic market and ultroists inspired by those of the social market.

The example of blood donorship fulls to bring out the full complexity of the phenomenon of alruism. The fact that blood is a gift which costs us nothing is far more impurunt than the fact that in some countries the sale of blood con be profitable. A mure seneching test of the scope and limits of altrulan would be the donation of hodily organs the loss

sense of kinship might helide more distant kin. In any suclety, however, a potential donor winhi have to consider very carefully the extent to which he is morally justified in placing at risk the welfure and security of his own family in order to save the life of a stranger. It is therefore by no menus self-evident that altruistic acts on behalf evident that altruistic acts on betture of strangers are mornly superiar to altruistic acts on behalf of one's immediate kin. That there is a dimension of depth as well as breath in the quality of altroismonly serves to helghten the dilemma. Much depends on the noture of the goods or services in greater.

question. Secondly, Thmoss's concepts nitruism and egoism so elevate the institutions of the social nurket and dehase those of the economic and denase those of the economic morket as to give the impression that the moin Effect of industrialism and entrepreneurial octivity has been the infliction upon hamanity of "diseconomics and diswelfares".

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There is an extensive literature dentonarating that at the lowest facounce levels, where the privote trap occurs, such disincentives may be very important indeed. There is another extensive literature emphasizing the relativity of poverty and

the real world are more likely to be interactive and conditional.

In their extreme forous alreads and then extends the supplies and then and entire these areas of knowledge and then extends the supplies into the middle. and upper income ranges. Yet we may now be reaching a stage at which the hacklash against social marker values will gother sufficient public support to inflict lasting damage upon our statutory social services.

In his great lecture, "The Social Division of Welfare", given in 1955 and published in 1956, Timms drew up as agends for empiry in which he seemed poised to break free from the traditional confines of social action and administration. only the statutory social services but also the fiscal and occupational welfare services.

In the end, however, he characterized their relationship in terms of division rather than unity. The model was used thereafter to justify a moral indictment of the fiscal and occupational systems of wel-fare: a seal was set upon the division between the ethics of work and the ethics of welfare which

Later Timuss was to oppose Britain's entry into the Common Market on the grounds that the social values of western Germany and France were insufficiently "compassionate" and civilized in "world terms". His internationalism derived from his concern for the universal stranger and want beyond the regional groupings of

The question of internationalism brings us to the third of the problemmic aspects of Timuss' approach in social policy. I have suggested that his mulyical model is based on an oversimplified dissinction between egoism and altru-ism which fails to take into account the umbivalent nature of felt ahli-garlou stemming from fumilial duyalties. It also encourages us to underestimate the fact that there are cleizens who believe that the workings of the economic market do ensure in large part a just allo-cation of life's material rewards.

If we believe that most people accord the highest priority to their famillal interests, it is difficult to see how 'Timpuss's social market i to nchieve ultimate ascendancy, hoth morol and political, over the eco-nomic market. He lnoked to democratic processes in general and fis-col policies in particular as the means to that end, but what would



Illchard M. Tilmuss

question remains, however, not as to evidence that even under conditions

increasing public concern about ther a new sense of national con-national efficiency stimulated many schoratess, it is of a kind which hung overdue and much needed teads to be inward rather than social reforms. Furty years later Devertible, the last of the great Edbing overduce and much needed social reforms. Furty years later fleveribge, the last of the great Ed-wardian social reformers, used las nexions between patriotism and social reform.

Adversities of war

Timus wrote about a period in which British society seemed to be discovering the welfare values and aims which he most esteemed. The shared adversities of war arrengiliened our collective determiindon that thenceforward all com-putriots would enjoy the benefits of a more just and compassionals welfare system. The time and the prospects were such that Ticnuss, writing in the lute 1940s, was uble to take a whole society to Illostrate

his thesis regarding the integrative role of social welfare.

The Gift Relationship was a rouffirmation of the values which he still helieved to be copable and he still helieved to be copable and worthy of universal adoption, but the illustradve example had narrayed from a whole society to a special sector of medical care. Britain had not become the kind of welfare saciety which he had always envisaged. Thansa's antipathy to the values of the competitive economic market, expressed in his attacks processage of the second content of the same occupational resignation. on occupational welfare and his con-demantion of the Contoion Market,

demination of the Contolon Market, remained to the end.
In certain passages of Problems of Social Policy Titatuss's empurity with actual times and places is so intense that we are made to feel, as Ellot once wrote, that "History Market and England". The integration of familial, communal and national

whether the thesis holds good with af economic growth rich nations regard to the unique example of are disposed to chare significantly free from the traditional confines of social policy and administration. In one sense he did so, by defining social services in terms of their mare costly gifts in context other aims rather than their administration the odversities of war and at the level of sovereign states rather than the compass not only the statutory social services.

At the heighning of their increased wealth with poor nations. There is, however, some evidence that in times the level of sovereign states rather than particular social services.

At the heighning of their increased wealth with poor nations. There is, however, some evidence that in times the level of sovereign states rather than particular social services.

At the heighning of their increased wealth with poor nations. There is, however, some evidence that in times of economic crisis, and decline this the level of sovereign states rather than particular social services.

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At the heighning of their increased wealth with poor nations. There is, however, some evidence that in times of economic crisis, and decline this the level of sovereign states rather than particular social services.

At the heighning of their increased wealth with regard to other, and the context of economic crisis, and decline this deposition to give is greatly wealth with regard to other, and their increased wealth with regard to other.

Social infinitistruction carried a heavy board of human longing for a better world. The promise of social justice is pair of the perennial intraction of Marxism, but injunc-tions to unconditional altruism contime also to be o powerful element in the work of many non-Marxist social administrators. This tradition is exemplified in the work of Tie

of Britain today internationalism is self-evidently respectable and patrioself-evidently respectable and patria-tion is nor. Overt patriotism, pro-vided that it goes under the nume of "nationalism", tends to be viewed us o virtue only when it is practised by universal strangers. We would do well, however, to note Wil-liam Letwin's suggestion that in the colence the ordinary citizen "naturber of nersons who are closest to him in the morn sense; his family, old friends, neighbours ond com-portions, in descending order". Problems of Social Policy provides

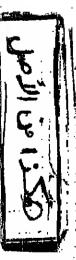
some powerful evidence in support of this ossertion. The Gift Relationship does not have a sufficiently extensive succeeding to convinco us that this order of infec-ilva prioritlos con be alther modi-fied or extended in the real world

munity.
This is not to dony that the clulms nf lite nulversal stranger hove some nullority but to point that they are a part of a complex network of claims and entitlements. Even if we ciaims and entitiements, even it we were to make onconditional altruism the crawning glory of our moral sentiments, it would be as well fur us to remember that crowns are reserved for succlul occasions, and that most good deeds are dono in the fostion of a more homsepour

philosophy.

The really difficult moral problems in social welfara arisa for us not what we are establishing the superordinate authority of one cloim over all others but when we are working out the criteria by which wa con reconcile many conflicting claims, each of which has on equal right to consideration On equal right to consideration. On what grunds, for example, can relotively offluent eltruists in Bri-toin justify the dispensation of fox-

Talk to be stated at 1







Butterfly minds beware!

Property

Academic defence mechanisms

Academic defence mechanisms

Academic defence mechanisms

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James D. McCawley

Corrected Edition: 1977, 408pp., £17.75/\$25.00 0 12 482450 1 This volume contains almost this entire work written by the author on synlax and samantics up to December, 1971. Rather than rewriting those papers which do not reliect his current thinking, he has contined himself to rasking stylistic improvaments, making some changes of terminatory. changes of the time to making stylistic improvaments, making some changes of terminology, introducing a uniform method of bibliogrophical chatton, and replacing cartain examples. Copiona annotation have been added, containing retractions, criticism of the arguments presented, additional focts of relevance, and references to subsequent work on the topic under discussion.

English Quantifiers

Logical Structure and Linguistic Variation

Guy Carden

Corrected Edition: 1977, 120pp., £9.50/\$12.00 0 12 158350 9
From the Introduction: This book hea two main objectives: 1. To
present and detend an analysis of the underlying structure of quantitiers. 2. To develop a new method of pront based on tinguistic variation. These two goals are inter-dependent, since the best significant for the proposed quantitier energies are based on tinguistic variation, and the proposed methodology is examplified and shown to be useful by application to the quantities problem.

Topics in Phonological Theory

Michael Kanstowicz and Charles Klasaberth

1977, 242pp., £12.40/\$17.50 0 12 405150 2

This book explores the question of abstractness in underlying repreantelions providing up-to-data explanations of this and other current issues in phonological theory, with every problem, os well as its possible resolution, being amply illustrated with concrete data from a variety of lenguages.

CONTENTS: The problem of the electractness of underlying captainties. The problem of the electractness of underlying captainties.

aentations. The nonphonetic basis of phonology. Constraints on phonological representations. Naturel rule interections. The multiple epplication problem. The role of derivational history in phonology.

Bilingualism

Psychological, Social, and Educational Implications

edited by Petar A. Hornby 1977, 180pp., £9.75/\$9.00 0 12 359350 X

This volume presents some of the historical developments, theoretical controversies, and mojor research lindings and applications from the points of view of psychology, sociology, linguistics, and education, as they relate to various aspects of bilinguistics, and education, as they relate to various aspects of bilinguisties. The consequences of concern: the book cover three distinct but overlapping locuses of concern: the consequences of bilinguistiam at the level of the individual, the effects of bilinguistism on sociel interaction and society, and the significance of bilinguistism at the national and international levels.

Essentials of Grammar

A Volume in the Language, Thought and Culture Series Domenico Parisi and Franceaco Anlinucci translated by Elizabath Bales

1970, 192pp., £7.10/\$19.99 0 12 544000 0 There is a pressing need for some model on conceptual iramawork in whose larms it to possible to represent everything that con be known about word meaning and sentence meanings and whitch can at the same time be integrated with a theory of the grammatical organization of sentences and the grammatical functions of words. One attent to provide such a model is the movement in modern linguistics that has come to be called appreciations.

The autor to provide auch a model is the movement in modellinguistics that has coine to be catted ganetetive samantien. The book that Domenico Pariel and Francesco Antinucal have written identifies a version of the generalive samentics model, dovologing the littless and the samentics and the control of the generalive samentics. ing it in its own isrms and with no intellectual preraquialtes in either linguialtos or formal logic. The authors have concentrated on making the notations intelligible, making the elyis of ensiyals ismilisr, and damonatrating the applicability of the model to a large number of sementic domains.

Language and Context

The Acquisition of Pragmatics

A Volume in the Languago, Thought and Culture Series Elizabeth Betea

1978, 390pp., 214.15/\$19.95 0 12 081050 8 This volums selectishes the connection between language and its institute context and integrates Plagetten cognitive development; and language development, reaffirming the role of the semantic component of speach, the internal of the semantic component of speach, the internal of the semantic component of speach, the internal of the semantic component of language of his listener, and social constraints in the development of language. The author stresses the tast that all knowledge, including linguistic knowledge, is procedural or nature, also supporting throughout the book Plaget's claim that thought is assemblety "internalized action" all of which is ultimately derived book the internalized action of things in the world.

Syntax

Peter W. Cullcover Hardback: 1976, 336pp., 28.86/\$12.80. 9 12 199250 0

Paperback': 1977, 339pp., 24,00/\$6.50 🖰 8 12 199230 8 🕏

This book serves as an introductory taxi to ayniscile ensiyets and syntaxicile theory. It theats a number of the "oore" phanomana of English syntax and usee than to illustrate the relationship between the same theory. The approach taken is a strict syntaxic one in that semantic considerations are ignored except inaxig; as they provide validation for an enalysis arrived at on the basis of purely aynisolic considerations. Particular amphasis is placed on the interrelationship between constraints on grammars and the learnability of languages.

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BOOKS

Metaphor and metonymy

The Modes of Modern tyriting by David Lodge Edward Arnald, £9.50 ISBN 0 7131 59499

Criticism in England, over the past toro generations, has enjoyed cermin notable strengths, but suffered also from certain weaknesses. On the whole, it has incked an inlequate means of discussing narrative, and so it has been inclined to see fiction

myntic expression is arrived at by a sort of touround deletion. From combinatory expressions like "the sails of the ships" or "the guddess of lave", we delete not the less but the more humediately relevant and meaningful part of the conception, and are left with the memoryny.

This control area in five delete and the conception, and are left with the memoryny.

This control area in five delete that the link between the link between the control of the conception, and the control of association through control of the control of so it has been inclined to see fiction means of discussing nortradity, and it analysis to make the first of the standard book like propriet in the invest as in fact ure than if means the invest for the interest of Complex Worls, it has been inclined to see fiction in analysis of the standard book like propriet in the invest for the interest of Complex Worls, it has been inclined to learn, and the interest of Complex Worls, it has been inclined to learn, and and the interest of complex world in the interest of Complex Worls, it has been inclined to learn, and and the interest of complex world in the interest of the interest of the interest of the interest of complex world in the world in

Structuralist package tour

BOOKS

After Saussure

I a man Jakohson's Apprenach to Lan-

Fhor Holenstehn

aslated by Catherine Schelhert

aslated by Catherine Schelhert

Agresius Schelhert

Ludgersity Press, £7.50 University Press, 17.50

subject).

Thus far, there is little than linguists would find controversial. However, Holenstein's presentation is avowedly pro-Jakobsonian, and frequently presents Jakobsonian, and present presents Jakobsonian and present of the relation between syntax and semantics. The first specific organized in unconstituationry terms has been opposed by several proposals of the manthored in large measure by the manthored in large measurements.

Morris Hulle; one of Jukobson's enrier collaborators in setting up the aconstic-auditory system.

Holenstein rightly cites Jakobson's concept of invariant meaning,
independent of but differently
manifested as unious contextual
meanings, as one of his key ideas,
relating it to Husser's cidetic relating it to Husser's eldency phenomenology and the concept of invariance in mathematics. But the examples elted remain unconvincing. When we are tald that the general meaning of the Russian accusative, "directedness", is appropriate for the Russian management.

for articulatory systems, one them authored in large measure i

ing. When we are taild that the general meaning of the Russian accusarive, "directedness", is appropriate for the Russian branslation of book in I am rending a book because the book is the target of the rending process, it is unclear that we are dealing with anything beyond a vague metaphor. In a book intended as much for phikosophers as for linguists, it is unfortunate that many of Jakobson's more controversial views ore presented so uncretically. For the linguist reader, the philosophical prerequisites are demanding, especially as there is no systemotic presentation of Husserlian phenomenology. The reader may well remain uncleor just to what extent Jakobson is cludmed to be o Husserlian.

Jacobson to cramed to be a misserlion.

Despite the broodth of Jakobson's linguistic interests, and de
influence individual facets of his
york have had an other linguists,
he has not developed a school in the senso of a group of linguists currying on his work as a syndie-sized whole: Perhaps his greatest contribution has been in providing individual flashes of insight distince them been developed more fully by others.

Bernard Comrie

What phonology is

structuralists, there is nothing here, save the udd new example, which has not already been done in Fig. 1 oppores some some within a Somerstehr reading. It oppores some within a Somerstehr reading potterns for "the first Arnold, £12.0" basic." logroductions to the \$6.7131 5961 8

This is not an elementary text book; indeed, I find o cortain difficulties and learned work, mentions and element work, and in phanological theory.

If in phanological theory, in the heads of a skilled troop in the superiority of any sking all of them fairly and take them seriously. It gives syongate them to "classical theory with lioguistic theory of them fairly and take them seriously. It gives syongate the seriously, it gives syongate to "classical to

Meanings

"threspecied" by h. Against this it was argued dint there is no doep structure (or that squantic strucstructure (or dist semantic struc-inite is deep structure), hi reply Chomisky offered his "extended standard theory" (EST) in which not only deep structure, bor also sorface structure, provides the inpor to the semantic component, and more recently has proposed "trace" theory, in which the surface structure alone, though ford-fied with traces of deep structure relations, is sufficient for all the

Dr Fodur concentrates mainly in the first two theories. She has little to say about EST—and, in any case, Chumsky soon nhandoned it. It Is a little infortunate that trace theory is alsoussed only briefly in the last chapter for, aldrough the specific proposuls may not be convincing, the idea that surface structure provides the input to the semantic component is in accord both with the traditional viewpulating with our intuitions obout performance.

In view of the interest that there has been in generative grummer it is surprising that this is the first book that has attempted to take an overall lank at the cuotroversy con-cerping syntax and semantics. It is not n book for the complete out-sider, but it is an excellent textbook for advanced students of linguistics. The arguments are prosented with great clarity and with commendable nd rare objectivity.

ond rare objectivity.

Control to the discussion ore the two lasues of chapter four "The Mapping hetween Syntectic and Semantic Structures" and chapter five "Semantic Representedors". Dr Fodor admits that this looks like putting the cart bufore the large. It is indeed, if one starts with an independent view of what semantics. Independent view of what semantics should look like; but within the gunorative school the diseassion of scimuntics has como ont of the disussion of syntox and it has even

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Historical Linguistics by Theodoro Hymon Cambridge University Press, £12.50 ond £3.95 ISBN 0 521 21582 X and 29188 7

Begioning students in linguistics, fired by the desire to build gram-mus for modern languages, some-times forget that the founders of times forget that the founders of the trendeth-centure study were the trendeth-centure study were men largely concerned with the phonomena involved in longuage change through time. At the same time, the generative style does detract a little from same of the more immediate difficulties ranceribing the grammars of some ideal speaker/hearer has tended to conceal the non-immensurate matter. What has to be questioned must is the language change. conceal the non-humagranus maturo of even the synchronic data. The result has been a certain reluctance to deal with elements in language which might work towards its vari-ance buth in time and gangraphical

Nevertheloss, some of the numer-um from the general interest in hings linguistic has carried over things linguistic has carried over into thuse more neglected areas and led to on awakoning of interest in liulds of study which, mutil recoutly, had been oxiled to the periphery. Of those, the study of why language alters through thuo has been one of the more important. Given a new title—"historical linguistics"—there has been something of a rush to "apply" the findings of the generativist otodels to this once traditional subject. However, it has to be said that on very many occasions this renowed interest resulted in mere model paruphrose. Theodoro Bynon's book does much to put us on our guard by very admirably highlighting the sophistication of pregenerative models and very often leaves the reader with the impression—especially in the ureo of syntactic change—that nut a great deel of generalization las licen achieved or even the revised standard model.

by the opplication of the standard or even the revised standard model.

The euthor's approach (aspecially in part one) is essentially one of model comparison. The prosection tions to our knowledge (mode by three principal theories) as to why

language should temporarily vory are set out. Newgrammarian, structuralist and generative views are expounded at some longth and their relative merits assessed. Yet, despite the considerable degree at colonomial the constant of the constant that the constant is the constant of the constant that the constant is the constant of the constant that the constant is the constant of the schularship displayed, her approach forces her to talk more and more about the significance of dischronic dan as evidence for problems relating to the construction of synchronic grammars. This is a

is the book's value as a textlomk. Tog often the views of other schulars are expressed in a form extremely class to their original statement. In many instances the same examples are clied as appear in source materials so that the stud-out might be better advised to consult original works or acquire a good reader in the subject.

There is the feeling, ou, that the nuthor is more at home in the pregrative schools, a feeling often countries by what appear to be some misunderstandings about deve-lopments especially in phonological

theory.

But the hook's greatest drawback lies in its failure to impart any of the excitement that studies in the subject are generoting. Why chause the fairly obvious (and hardly luminational generative grammur to such related topics as murphological and serialization change, when one related topics us murphological and serialization change, whon one might have looked at the for greater syntactic/sementie explanatury power in this area of a modol such dote hardly o linguistic upstart). A textbuok should look forward as well as back to the tradition, especially when it is hy now abundantly cleor that unt only many aspects of the neo-grammarium and structuralist positions, but even thuse of the now "classical" generalize school, lead up blind allowants. school, lead up blind alleyways.

(map legend, "Note: motion it occurs in on mapped elthough it occurs some density in Langes, west in and Northumberland". Charles Jones

Among this week's reviewers

Bernard Comic, fecturer in linguistics at the University of Edinburgh and color of Asport and The Russian Historical Linguistics at Brikbeck College London; Bernard Crick is, professor of politics at Brikbeck College London; Business at the University of Edinburgh of Carent in Sale of the Mental Health Scr. Aspects of the Mental Health Scr. Coster and muthor of The English Charles Jones, lecturer in Buglish In English; Buggage at the University of Edinburgh, is author of Introduction to Middle English;

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The word-lists ere fall of pet the University of Edinburgh of Edinburgh

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its, common acrong philosophers, iterding to which sementic ana-his trests the effects achieved by niuu. In addition to mail interhings, symbols are buch "usually for less office

language must always be o mirage, and one hopes that the linguistic community will soon realize this.

Geoffrey Sampson

Aselection of recent titles from Cambridge

MALCOLAL POTTS, PETER DIGGORY and JOHN PIEC. The first comprehensive occount of abortion that deals with its history, sociological, clinical and demographic aspects and which faces the clinical issues involved. This is an important book that is not olivid to make predictions and sees induced abortion as a key inctor in the history of the Districtury and likely to become even more important in the coming Hard covera £17.50 ne

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Sins of omission

Introduction to Transformational hy Diune It. Itorustein Winthrop, £10.35 and £6.35 ISBN 0-87626-43h-5 and 429-3

Miss Bornstein's book is certainly welcome in one way. She has clearly tried to Hom the familiar custom of writing about transformational generative groundur in sesquipeda-lian Latinese. Although she makes many points more heavily than prettlly, and olthough the potter of follstop following upon fullstop sometimes becomes mermanic, her style should provide the scaffulding for many to climb to o fair understunding of the subject. Some of her statements, it is true,

are puzzling or downright wrong; finite-state lunguages do nat necassorily hove o finite number of senminded than usual; the glossary, auggestions for excreises, and clear ond simple diagrams will be helpful

ond simple diagraous will be helpful to student; and the bibliography shows heartworming stirrings of eclecticism. Only the finol section on practical applications is less happy; we bounce belter-skelter through literoture, style, reoding, comprehension and dialects with the author assecting, on lorgely invisible evidence, that TG is a good thing every time.

thing every time.

The major drawbock to her book The major drawbock to her book is its crumped from. The title is misleading in that phonology and semantics ore not discussed, nor even the intriguing but disputed cloims about innut abilities. Also, olthough she wisely avoids shackling herself to any particular version of TG she describes only the nuts and bolts of the syntax, thereby skipping the most important questions, which should at least be broacked even in on introduction. When one has shown that some grammotical play can depict such and such an aspect of longuage, is that really enough? Why do we so commonly find TG claiming to have "explained", when it seems only to have when it seems only to have described? Why, especially, does le strive after formolization and to what profit? In empirical disciplines it is not usually formalization that brings greater insight into tho subject so much as the other way

Where too does Miss Bonnstein show us how her theory improves on its rivals? It will not do aimply to write. "Choursky establishes the case for TG by investigating several other models of lloguistic description and showing their inferiority". In fect, he knocked down a couple of straw men who were total strangers to nearly everybody worldness. gera to nearly everybody worlding with languages; Bloch's pellucid out-line of Japanese syntax, for exampla, just does not fit the CS at old lacker wished on to the atructuralists be Chomsky, and thou "discovered really is not true to suggest as this text does that we had to wait for TG to teach us that noun and varican be too brood as linguistic categories. The arrogance of TG, sadly often implies ignorance of earlier work oo lenguega and philosophy (and sometimes cavaller disdain of the facts of English; thus, Miss Bornstein seas "selling something to somebody" as equivalent to "selling something for somebody"; and aha reproduces the worm-caren treatment of edlectives, demolished long ago by Bolinger. Perbaps bowever we cannot blama her. Twenty years energetic brandishing of TO has flushed into the opan extraordinorily few insights into language that are new, true and interesting. Miss Bornstello offers us e competent bleness, but she is not another Pygmalion.

D. C. Ferris

Linguists and logic

Logic in Linguistics by Jens Allword, Lars-Gunnar Audersson and Osten Italil ambridge University Press, 18.50 ISHN 0 521 21496 3 and 29174 7

n 1954 Bar-Hillel recommended to linguisticians the thesis that formal semantics developed by lagiions, particularly Torski and sights and fertile approaches to the analysis of natural language. Good seed thus sown was subsequently

shoked by the respective contributions, sympetic and semantic, of Chomsky and Katz, to the standord version of transformational generative theory.
Since 1965 the standard theory

has been "extended" but has osslided. Thus, it is schulors like Partee, Lakoff and McCawley, among where, who must be given tho credit for the development of generative semunties and the emitting averall advance of linguistic theory, Indeed in its present phase linguistics has achieved sorily hove o finite number of sentences, and Edward Sapir was luterested in lunguage and longuages rather than in deductive theories. Yet it would be unfair to turn too much light on to details. Considered broodly, ond given one very serious reservation, Miss Bornstein's book is a workmanlike account. The lightning sketch of what happened "before Chomsky" is more open-minded than usual: the glossary. guages have been frintially epiphed to the semantics of notural longuage; and within linguistic theory in general, methods and approaches taken from logical and

deductive theory, Beyond this, the text encompasses modal logic, in-choling deoutic operators and the logic of tenses. A section is devoted to intensional logic and to on explication of the Montagne grammar. Second-order predicate logic, logical presupposition and the lambda operator all manage a mention before the final chapter, which deals briefly with the concept of meaning and the role and limitations of formal languages and armap, encapsulated significant to- classical logic in analysing natural

language. Despite their Intention, outhors have produced an elemen-ial test, rather than an elementary introduction to logic. They have provided linguisticious with an extensive prospect of the logical opporatus and techniques ovailable to deal with such recalcitrant prubre-de efeto anthiguity. As on introducted y text, however, the book is ton compact and far ranging for the average student. Pedagogically, it fails to recognize the step by step nature of logic learning and the need for the reader to causofi-date and check his understanding

date comperation between logicians and linguisticians, the authors gloss the basic difference lictween the disciplines. Linguistics is an empirical matter and searches for successful methods of analysis and theoretical models to fit its damaentails that logic is a model for natural language nor that the inter-imposes empirical, linguistic con-straints upon logic. Logic is a for-mal discipline, its criterion of sucapproaches taken from logical and mothematical theory have become increasingly common."

The text is claimed to be an elementary introduction to formal logic intended particularly for linguists. Ficetingly (a mere 170 pages) the book covers set theory, propositional and predicate calculus, the logic of relations and strained discipline, its criterion of success consisting of proofs of theorems within a complete, consistent and simple system. Linguistics may need logic, but ns Wittgenstein observed, "Logic must take care of itself".

Graham Shute

Modern Phonology Alan H. Sommerstein

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feasor.
All opplicants must passess a Ph.D. for an equivalent qualification and thate conducted and published research in this or her light. Professors should have 14 years' experience, four as an Associate Professor or its equivalent, i.e. Senior Lecturer or Reader. Associate Professors should have nine years' experience, four as an Assistant Professor or its equivalent, i.e.

should have nine years' experience, four as an Assistant Professor or its equivalent, i.e. Lecturer.

Salartes: Total munifuly salaries will be within the following scales according to qualifications and experience. (1 KD = £2 approx.)

Professors medically or non-medically qualified: KD 581-581 (5 increments).

Associate Professors medically qualified: KD 555-581 (6 increments).

Assistant Professors non-medically qualified: KD 555-563 (6 increments).

Assistant Professors or con-medically qualified: KD 445-515 (6 increments).

Candidates are also emitted to the following privileg.s.:

GRATUITY: There is a gratuity of one mouth's basic salary for each year employed payable on termination of contract.

GRATUITY: There is a gratuity of one month's hade salary for each year employed payable on termination of contract.

ROUSING: Suinably furnished, sir-conditioned accommodation, electricity, and water are provided free of clarge.

MEDICAL CARR: Free comprehensive treatment is avoitable under the State Health Service. TRAVEL: Airling tickets ore provided from the country of recruitment for the appointee, apouse and up to three dependent children under 20 years. Thereafter roturn tickets are is the country of origin. On termination of Gootract, tickets are to the country of recruitment. A baggage and freight otherwise is also provided. In oddition there is a travel ellowance for oftending up to two Scientific meetings a year.

VACATIONS: Two openates paid annual leave as well as various religious and official hull-days. For non-Clinical staff there is an additional two weeks' mid-year leave.

EDUCATION: This is provided free in state schools there the instruction is in Arabic. Staff inho have to tend their children to non-Arabic schools in Kuwalt will not the cost of up to maximum of three met by the University.

TAXATION: There is no income tex in Kniwalt. Currency is freely transferable without restrictions.

Forther details about these appolutinents and the method of application can be obtained from: The Dean, Faculty of Micdeine, University of Kuwali, P.O. Box 5969, Kuwali. Applications must be received no leter than 9th December, 1977. University of Kuwali and State of the Complete of Kuwali. Office, 46 Queensgale, Londoo SW7 511R.

THE UNIVERSITY COLLEGE MINISTRY OF AGRICULTURE CONTRACT PUNDS Applications for the post of Historian International Continuation of the post of Historian International Continuation of the C

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MANCHESTER

THE CHINESE UNIVERSITY OF HONG KONG

Professorships/Readerships

Applications are invited for the following Professorshipsy flanderablys tousble at The Chinese University of Hong Kong Hom Isl August, 1978. Faculty of Aris:

Feaulty of Ousiness Administration :

(0) Protessorship/Resdership is Accounting
(6) Protessorship/Resdership in Flaence
(7) Protessorship/Resdership in Personnel Mesagement
(8) Protessorship/Resdership in Personnel Mesagement
(8) Protessorship/Resdership in Osnoral Success Menogament
(16) Protessorship/Resdership in Osnoral Success Menogament
(16) Protessorship/Resdership in International Success

Foculty of Gools! Solencs : Feoully of Science : [12] Professorship/Readership is Chamistry

Applicable all allowing the Chamistry

Applicable allowing possess out-fanding anatomic qualifications have considerable university functing and recount operations and should have published adoletably works of originally and nearly. The University opposite in his time Professorables with conditions of high standing who leave made proper contributions in the academic disciplines concerned. Appendices will be expected to give londerable to the texture and propositions to the requirements in their respective liets, and will be required to very also of recounts continue, institute, and post-production of the University.

The salary let Profugeroships will be the first or above per runned the exact anomal to be first in accordance with smallfandous and reportence. Forms of source date the first buy leave, supermonable to be buy through a source date in the buy leave, supermonable to be buy through a source date in the buy leave, count module benefits, hunsing accommonisher with the proposition of pinne heave. Conditions who do not processe the required qualifications for appropriation in Professorability may be considered by approximation of Professorability may be considered by approximation of the proposition of approximation of the processe but considered by approximation of the proposition of the proposition of approximation of the processe but considered by approximation of the proposition of the processe but considered by approximation of the proposition of the processes.

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University of Queensland AUSTRALIA

Appointment of Vice-Chancellor

The Senets of the University of Quoensiend Invited epplications or inquires from persons interceled in being appointed to the poeltion of Vice-Chancellor, which will become vacent in December, when Emeritus Profeecor Sir Zelmen Cowen assumes office as Governor-General.

smor-Genaral.
The appointse will be the Chief Administrative Officer of the University and cliquid possess suitable edministrative and condemic quelifications.
The salary and allowences will be comparable with those paid to the vice-Chencellors of other targe Augitralian universities.
Further information may be obtained from the Registration of Commonwealth Universities (Appointments).
36 Gordon Squara, London World are (Appointments).

Applications close on January 31, 1978, and should be addressed to the Chencellor of the University. S. A. Rayner, Registrar.

CALIFORNIA THE UNIVERSITY

THE CHIVINGITY DEPARTMENT OF

DURHAM

BAYERO-UNIVERSITY

NIGERIA RECTOR OF 10 COMPUTING SERVE

THE UNIVERSITY

OF PAPUA

NEW GUINEA

(Port Moresby)

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10 December, 1977.

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SURREY

Analysis. Candidates should be UK cilizens and have laught in a university for a minimum of two years. Protessed aga 35-50 years. Salary: £5.210-£7.054 ps. Benetits: Personal and children's allowances, amployer's postler of supersonnation. Iras lumshed accommodation, two-year captract. 77 PU 156 Return lares are paid. Local contracts are guaranteed by the British Councit. Please wills briefly stelling qualifications and length of appropriate expostance, qualing relevant retarence number and little of poet, for further detailed and application form INDUSTRIAL LAW This position is in the Department of Accounting in the Faculty of Economics. The appointer will participate in teaching in the three law courses offered to students for the E.L.c. degree. Applicants should have special interest to one or more of fields of contracts and consumer protection, companies and sectifies regulation, trade inactices, baselion or industrial law. In November, 1917. application form to The British THE BRITISH

(Sri Lanka)

NATIONAL UNIVERSITY OF LESOTIIO SEXIOR ASSISTANT

LUTRARIAN

Overseas Teaching Posts

Iniversity of Lpublishia

LECTOR IN ENGLISH FOR

SPECIAL PURPOSES (Yugoshivia)

To leach reclinical English to university students of science and technology. Degree and TEFL quelification essential, costgraduate qualification in Linguistics describe. The candidate should have

an interest in or experience of materials production or ESP. Substantial experience of TEFI, overseas

essential and recording experience would be an advantage. Preferror ago range 30-40.
Selary 6,000-7,000 new linars per month (present rate of exchange £/ND 31). This setary is

non-convenible. Additionally, at annual subsidy of. £1,244 paid by the Bulish Council in the UK.

Benefils: Free medical service; employer's portion of superappulation. One-year contract, ronowable.

77 RU 148

University of Sri Lenke, Colombo, campus
Qualitications: PhD in Zoology with recearch
experience in Acquisite Ecology and Systems
Analysis. Condidetes should be UK citizens and

SENIOR LECTURER IN ENVIRONMENTAL SCIENCE

Applicolons's are invited from suitobly quelified crindicales let in ho nbove post. Applicans must have n University Oopsee plus Heave n University Ooksee n University Ook

any supplementation schamp.
Accommodation available at reasonable refuels. Family passages and bannage suttlings. Education silowance for expelitation. Vaccilion leave. Medical aid schame. Celailed applications (3 depice) including a luti curiculum viteo and senting thee releroas with addresses by 30 November, 1977 to the Assatisted Register (Appointmental). NUL. Rome, Leastipp. Africa: and in the case of applicants aslegant in fibruinted Aingdom: with middly for United Aingdom: with middly for the Seciety. Tolenthat Couri Fload. London WIP DOT from elities, of whom further particulare may be obtained.

BRADFORD THE UNIVERSITY STOUCTURAL FNOINFEILING

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MAGQUARIE UNIVERSITY

LAW LIBRARIAN

enrolled in its internal and external courses
Further Internation about this patition may be obtained from Mr. E. H. Wilkinson, University Libration.
Macquerts University provides lour wasks ennual leave, together with generous such leave and long-serves leave banelite. Superannuation is a qualifying paried.

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POSITION 110. 77/08

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Applicants must possess a university degrae and the Registration Catalytical of the Libraty Association of Australia or the applicant. A degree re other qualification to Australia or the acquaints of the applicant of the australia orade and the second orade it is \$4.10,284 to 12 to \$15.921 per annum. Libratian Orade III is \$4.10,284 to 21 to \$15.921 per annum. Libratian Orade III is \$4.10,284 to 21 to \$15.777 per annum. Libratian Grade IV is \$4.15.578 (*2) to \$17.771 per annum. Libratian carder services and collection tuits donor necessary of the second of the conjunction tuits the School of Law, for providing instruction in the use of the improvided in the internal and extension of the second of the confunction tuits the second of the internal and extension of the provided in the internal and extension of the provided the provided in the internal and extension of the provided the provided in the internal and extension of the provided the provided

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GLASGOW

THE UNIVERSITY DEPARTMENT OF ROCIAL AND ECONOMIC RESEARCH INO LECTURESHIPS IN APPLIED ECONOMICS

Applications are invited far two Lettinites and a private factor of the control o The salory will be on the Liciurors' scale 1.63,334 to 55,635; with storting level delendent on age and exprince, and starting the own to negotation. Approprieto superannualion scheme will opply.

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THE UNIVERSITY

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MANCHESTER THE UNIVERSITY CHAIR OF GEOGRAPHY

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Applications are invited from persons with impress in the name of Physics in the name of Physics in the name of Physics of P

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THE OPEN UNIVERSITY PACULTY OF TECHNOLOGY

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The initial salary is depon-ient on the smallfiglions and experience of the succession

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Lady Margaret Hall,

OXFORD A Taibot Research Fellowship of the value of fl.280, tenable from October, 1978 for oso year, or a maximum of two years, is offered by the Governing Bedy the Governing Body. The Feliowship is at present statutorily restricted to women who are graduates of one university; and who are graduates of one equivalent sending. Further particulars are obtainable : from the College Secretary, to when applications thould be sent to arrive by 16 January, 1978.

OXFORD

SOMERVILLE COLLEGE The College invites applications by 12 January, 1976 for stary teachers, 1976 for stary teachers, 1976 for stary teachers, 1976 for stary teachers, 1976 for stary than 1976 for stary teachers, 1977 for stary teachers, 1976 for stary teachers, 197 A January, 17/1, for a tray want important for two yours from Complet for two yours from Complet for two yours from Complet for two yours from Completing for a single from the from the completing from the completing for the completing from the completing for t STIRLING

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SCHOOL OF MUSIC

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Applicants are regulated to tada to for which of the ture posts detailed helow they are applying:—

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OF LECTIVER IN the History of AUSIC.

IN PIANOL MUSIC TUTOR

The successful candidate should be a perjorner of secondsod repute.

The ability in lecture in Stuck Billiphets other than the aberte-mentioned will be a recummentation for early of these posts.

Salary ranges affected to

Senter Lasturer III. doi: 10 III. 12-30: Ferturer III. 300; to IP. 110: Senter Titus III. 300; 10 IP. 130: CU equals II. 160 approximately; pins a 10 per cent persionable allorsonice.

Hencills include on munici-bunds, teotskal and localital ald facilities, and a hunsing subsidy, is obglide.

OXFORD

HALLIOL COLLEGE

FRIJOWSHIP IN HISTORY FRIJOWSHIP IN HISTORY (Junior Hosearch Fallowship)

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OXFORD

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> WESTPHARE COLLEGE DEPARTMENT OF CHEMISTRY POSTPOLIOHAL BESTARGH

> > TLITOWSHIP

Applications are invited for n posidectoral appeliational for work in collatoration with Pro-fessor it. I. Aviett and the British Steel Garparation Tens-side Laboratoros. The work involves a sanglet distinguish processes. Particular attention will be paid in the physical microstructure, althorotum interestructure, absorption properties and suffice clouds-try of these dusts: a ratine of physical techniques will be

Salary wate \$3,565 to \$1,150 part 547a London Allowance and 1188 benefits finder royleyr. The nost is tenable from 1st Decomber, 1977, or an agreed date.

Applications, including a corriculum wins and the names of two scientific reference, should be sent to Professor II I Actell, Industrianal of Geometry, Westfield College, Hampstead, London, NW3 781.

Polytechnics

LANCHESTER POLYTECHNIC

FACULTY OF APPLIED SCIENCE Dean : M. E. Fosa, B.Sc., Ph.D., C.Chem., F.R.I.C.

Head of Department of GEOGRAPHY

Applications are invited for the angre past. The Hend will be a person of high newtounte and professional standing with experience in the organisation and backing of an iterative Degree remains in Occupantly complemented by a successful is-

Salary Head of Opporting of Clarke IV C6.75G-C7.622 plus C312 plus C100 supplements. The vacuusy arises have the resident of a new Octafinion. On the date of appendicent of the float, have the theologically fee from the entire of the physics.

Application form and lutther particulars are pupiloble from the Otractor. Enacted Polylachnic. Priory Street, Covenity CV1 5FB, retinuable by 29th Hovember, 1877.

NORTH STAFFORDSHIRE POLYTECHNIC

West Midlands Reglanal Management Centre Vacancies exist for LECTURING STAFF who will join it a Department of Menegament Studies of the recently dusigneted Wed Midlende Regional Menegament

Applicants ohould heve relovant inductriol experience Applicants oncure news relovant inductrial experience, and poseese e degree in Management or eliled outled: (prefarebly at Mesiers lavel). Experience to research end/or management education eclivities is decirable. Applicants (mele/temale) chould also be able to offer eubject specialisme in one of the following ereas:

abje to offer eubject specialisme in one of the following gream:

Public Soctor or Local Government Menagement;

Personnol Menagement and Industrial Relatione;

Business Policy and Management Economics;

Organizational Theory and Human Baheviour;

Finence and Business Control;

Quantitivo Methods end Operations Rossarch;

and Merketing.

Appointments will be made at Principal Locturer and Sanior Lecturer/Lecturer II lovel departing on gueli-

Sanior Lecturer/Lecturer II lovol depending on queliications and experience.

Salary:

Principel Lecturer 25,432 to 27,134 (bar) to 28,670;

Bahler Lecturer 25,823 to 28,447 (bar) to 26,699;

Lecturer II 23,771 to 25,885.

Application forms and further particulers mey ba obtoined from: Deputy Director (Staffing), North Siellordshire Polytechnic, College Road, Stoke-on-Trent 8T4 20E.

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Ulster Collage

THE NORTHERN IRELAND POLYTECHNIC Faculty of Social & Health Science

LECTURER I or LECTURER II in PSYCHOLOGY specialising in OCCUPATIONAL or HOUSE PSYCHOLOGY or ERGOHOMICS

Salary Scalo: Locturer f £2,913-£4,689 Locturer II £3,744-£5,985 Applicants should have a good Horours degice larably posigroilunto quolificotions.

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The Entabliahmoni Officer, Uldar Color THE MOSTITIONN IRELANO POLYTECHIS Shora Road, Nawtownsbbay, Co. Antrin 1979

MANCHESTER

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destraine and the successful
candidate will be expected to
continue these labour with
industry.

The Department is respon-sible for a range of concess in fusions. Studies including an florious studies, it N.H., and I.N.E., and new congress into thing production are being developed. All staff are ex-perted to grant floring in compa-dancies training. pertof to conflow in comes administration.

Robert Sodie: Lecturer II. 25,279 in 25, 193 plus 2,194 per aminim stropheneur, with subsequent from side, subject in Hurnian ribola.

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Applications B: billion billio

Colleges and Institutes of Technology



RESEARCH STUDENTSHIPS OFFSHORE ENGINEERING

for graduates in Engineering or rolsted dischlis The School of Mechanical & Offshore Engineering teaching and research in Offshore Engineering high reputation.

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Application forms are available from and should be returned os soon us possible to Chief idealaistratification. Robert Gordon's Institute of Technologies, Schoolivil, Aberdeen, Alio 1FR, Tel. (1924) 57451.

No-adystlisement

DUNDEE COLLEGE OF TECHNOLOGY

LECTURESHIP IN ACCOUNTANCY

Applicants should be honouse graduntes end/or hold equilibrium to accountancy; they should see honous practice and/or loading experience at underpreduate to the person amountains of the person amo The person appointed will be expected to confidule to be the little of litrancial and example of popularity of CNAA defined of the nectal and example of popularity of CNAA defined of the nectal and example of the nectal and the nect Golary on the scale \$3,538 to \$6,516 [bar] to \$8,899. William placing dependent upon once nonewed experience. placting dependent upon prior approved expertee in-

THE REPORT OF THE PROPERTY OF folloges and Institutes of Technology

The state of the s **DUNDEE COLLEGE OF TECHNOLOGY**

SENIOR LEGTURESHIP IN NURSING

Ephicitions are invited from registered tourser with interlainful terring and protosofound organization. The received appointed to the responsible in the connectly of County of

Supplied the scale 66.504 to 67,230 (bar) to 68 228 with initial system a factor dependent upon prior dependent. Financial assistance feared by 600 of runioval dependent may be payable.

fullet particulate and application form ubioint bia from the Assistant (Establishmont). Ounder College of Astronogy, Boll Birgel, Ounder DOI 186, in whom Continued application forms should be returned by November 21, 1777.

THE RESIDENCE OF THE PARTY OF T

Adult Education

NORTHERN COLLEGE

A RESIDENTIAL COLLEGE OF ADULT EDUCATION

The Northern College will provide for meture men and women who were unable to pureuo lheir education eerlier, or decided not to do so, but who ere now looking to Adult Education ee buywhode now how home and development. It wit offer two yeer, one yeer end ten week partods of full-time study designed to halp adults to deepen their understending of ee, the role they cen ptey in ecolety end the work they can do.

The College was lounded by a consorilum of Education Authorities and bodies in Yorkehire end Humbereide. II is greni-elded by the Local Education Authorities in South Yorkshire and Education Authorities in South Torkshife end by the Department of Education and Science and will be open in September 1978 at Wentworth Caalle, Barnsley. An Initial complement of 50 eludente will be increased lo 120 in two to livree years time.

The Council of Managoment now invita applications for the poste of Principal, Senior Tutor and Registrar, each appointment to be taken up not later than 1 May 1978.

PRINCIPAL

The Principal will have responsibility for informal organisation, management and development and the meter initial lask of completing the present planning of the Culege, the or she will be Chaliman of the Academic Scard (which will be responsible to the Council of Management for planning, co-ordinating, developing and overseeing the sademic work of the College) and will undertake locating inappropriate subject areas.

The person appointed will have qualifications, preferably in, one or more of the following — English, History, Economics, Politics, Trade Union and Industrial Studios, a yide and aucessatul proloealonal aspariance of issching, planning and organising is adult aducation and an inforest a recursor and continuing aducation, the particular, he or site will have a prime concern to make aducation serve like heads of mature adults and an imaginative insight into how faching, learning, informal and formal curriculum of a residential college can bring about that procees.

SENIOR TUTOR

The Sentor Tutor will be required to deputise for and to estat the Principal in the general development of the organisation and ecademic work of the Collega, particularly that subject to the Principal's direction) with regard to estudent admissions and counseilling, the curriculum, and leaching methods and resources. He or she will be required to tech in one or more of the following subject area. Modern History, English Literature and Speech, Trade Unian and Industrial Bludies, Local and Community Studies, International and Political Economy, Sociology, Psychology and Bootet Psychology.

Applicants should have good ecadamic qualifications, the standard courselling to the standard courselling in study and maintees of teaching and student courselling in study and maintees of teaching relating to the least of study and maintees of teaching relating to the least at study and maintees of teaching relating to the least at mature students.

REGISTRAR

haragister will be responsible through the Principal tor madministrative work of the College including the control of non-teaching stall, mangament of College buildings and sounds, the preparation of estimates, recorde and latistics, the handling of student less and swards, the diministralive aspects of stall appointments and the pristion of sacretarial services to the Council of languagement.

Applicants should have good experience of Educational Administration, appropriate qualifications, and an active interest in Education and a readiness to be involved in all aspects of the Ilia of a Residential Adult College.

SALARIES within University Professorial Orading, and to accordance with University Professorial Orading, and to accordance with University Sorier Lecturer and Assistant Relistra Scales (including current silowances). PRINCIPAL E8,400 per snnum (expected to be increased when the College is expanded), SENTOR TITOR 27,303 to 37,851 per snnum, REGISTRAR 25,423 to 28,855 per snnum. REGISTRAR 25,423 to 28,855 per snnum. September of stalf residing in the College may receive an will be sharped spproprietsly for the secommodation.

Further particulars oblainable from the Head of Administration and Law (reference H.A.), Town Hell, Sarneley, South Yorkshire (Telephone Berneley 203232 extension 446) who should receive applications by Isiler, raming two releases by 25 November 1977. It is expected that interviews will be held on or about 15 December 1977

Cullege, of Filucation - Courses

Live the second of the second second second second Farmento de como de com Ulparting of the collision of the Solly (1988) (Cellion).
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PRIHCIPAL LECTURER IN **SOCIAL WORK**

Care to Consider diene in Success Vork et est utal and Day Serger (1 (10) Supermont in after qualitying studies would to advent square. Safury: Principal Lucturer Eurobane FE 15,040/E 570 pdc. 1402 gap-plement fuller statelly and applica-tion forms available from Ara Clema Soyen, Constany, Coportnent of Social Studies, Saily Cik Colleges, Timing-ham 828 6LE, Tologhne; 821-472 4231.

LUNDIIN ERFORMING TORRION

PHILIPPA LAWCITE AND FULLLIAM THELLIGIT OF PHILIATION London Swite 200 Applications are invited for the fedgerary partition post of LEGITARIA II In 1998(88)

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[CONTINUES for teach results intended to 11.15], loyed the appointment will be for two or three days a week compositional and to tending from U. Lamary, 1978. Applicants stouble lower good aradomic qualification: raperioner of secondary school legiting and or the business world would be an advantage by a not resoults.

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CAMBRIDGE

UNIVERSITY DIPLOMANI ENGLISH STUDIES (for foreign students)

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HIS STREET, THE PROPERTY OF THE STREET

SURREY COUNTY COUNCIL. WEST SHIRLY COLLEGE OF MORSON GRAD THA

TITTOR LIPHABIAN Audications are invited from geofessionally qualified graduates for the root of Thior. Digarian in this College which offers 15.N.A.A. degree and advanced bevel toxidional courses in addition to lumination Studies. The post will be installed from 18 liminary, 1979, or in need in possible the rooter and the solars will be at Flumians. (The Seator Lecturer Grade & 3.523 to \$1.547 with an Outer Logarian due wouldning of \$2.194.

Penne will be privable.

turther particulars and application forms from The Little Administrative officer, lake the Little Random 1119 7DR, in whom they must be returned Within two works of the unpertance of this selection.

Awards

EDUCATIONAL DEVELOPMENT AWARDS

The state of the s

Ministry of Overseas Development

Thie Ministry is offering about 12 ewerds to enable the study of Education in developing countries and to enlarge the daveloping countries and to enlerge the experience of those from Britain amployed in this field. Awards are lenable from stx months to two years, and may involve sludy for a higher degree, or experied of attechment, or an involve sludy for a transfer employment will be expected in a releted ereo, normally oversees. Applicants, preferably senior tacches or educationalists, egad 25 to 45, should have working experience oversees in one ol these fletds :---

1. The planning of education.
2. Administration of oducation including the running of schools.
3. The adduction and fighting of teachers.

A. Curriculum renewal.

O. The use of new media,
S. Non-lormal squeation and communication, in
the tisk of social education.

7. Technical education including industrial training
and management development.

Closing date for receipt of applications for the academic year 1978/79, Maich 1, 1978. Further dotalls will be supplied on applical



Room A.520, Ministry of Overseas
Development Eland House
aleg Place, London
awi E. 50H, quoting tolerance Ed 201/234/01.THES.

Colleges of Further Education

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Department of Business and General Studies

Principal Lecturer in Complementary Studies Senior Lecturer in General Studies

Application, are invited from suitably qualified graduates for two without political within this large department.

initially it is intended that the Principal Lecturer will be responable to the ftend of School of General Studies for the coordination of the Complementary Studies contribution to our three CNAA Degree Courses. The Scalor Lecturer will take responsibility for the co-ordination of the non-degree work in the School and in particular the City and Gathly and Tec courses.

In each case candidates should have significant and relevant teaching experience and be able to demonstrate a capacity to help manage a rapidly growing and evolving section of work in the Follege. Research experience would be an added qualification. Salary In accordance with the Burnbam F.E. Report:

Principal Lecturer 15,940-16,642 (hart-17,598 (plus E402 Innex Landon Allowages and E492 supplement). Senior Lecturer £5,03t-£5,955 (plus £402 timer London Allowance and £492 supplement).

Carther particulars and application form tecturitate within 14 days may be obtained from the Scutor Administrative Officer 81 the College (Ext. 227). ilea

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Market Strategy and the strategy of the strate West Sussex County Council

CHICHESTER COLLEGE OF FURTHER EDUCATION Principal

On rotirement of the first Principal of the College, Mr S. D. Hughes, the Authority require a Principal, preferably from May 1, 1978, for this Group 6 Coilege, situated in entirely modern buildings. The college has eight departments and its own Hall of Residence, and attracts students from many parts of the United Kingdom and overseas. Candidates should be graduates with appreciate senior responsibility in uates with appropriate senior responsibility in further education.

Form and details from Director of Education, County Hall, Chichester PO19 1RF, on receipt of stemped addressed foolscep envelope. Clos-Ing date Novembor 21, 1977.

eth explanation of the property of the second

General Vacancies

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY (University of London)

Rector's Secretary

Applications ere invited for the cost of PERSONAL SEC-RETARY to SIR BRIAN FLOWERS, FRS, Rector of Impatial College. The Ractor is the Academic end Administrative Head of the College and hee national end international ecademic and scientific commitments.

The Personal Secretary will be responsible for the organ-The Personel Secretary will be responsible for the organization of the Rector's cities. Candidates should have considerable secratarial experience at a senior level, tirst class sacretarial skills, good organizing ability, including the arrongement of social functions, the personality to dail with people at all levels and the capacity to cope equably under pressure with a wide runge of interesting but demending business. The Sacretary should be prepared to work outside normal office hours according to the regularments of the duties. The nost will become the requirements of the duties. The post will become vacant party in 1978.

Sterling ealery will be not less than £4,400 per annum: contributory panelon scheme: 4 weeke' holiday in eddition to not met collage closures (1 week) et Christmas

Further perticulers and application torm from Bir Brien Flowers, FRS, Rector, Imperial College of Science and Technology, London SW7 2AZ, to whom applications chould be sent to errive not later then November 22,

Fin

State College of Victoria at Coburg

Melbourne, Australia

The State College of Victoria at Coloring is an affiliated College in the State College of Victoria. Formerly a Toachers' College of the Victorian Education Department, it is now in Independent Institution governed by its own Council. The College offers courses to Teacher Education, Youth Work and Welfare Administration and its developing recovers. and is developing courses in Nursing.

Applications are invited for the following positions: ICO 77/81

LECTURER IN ORGANISATION AND MANAGEMENT

BUTIES. To prepare courses and tenth in areas of Organisation and Mantagement applicable to Service triganisations. The statems involved are people working or intending to work in a range of professions including teaching, social welface, youth work out nursing. About half the appointee's time will be spent in courses related to school organisation and inougement. The application will be required to establish sound relationables with education and other institutions. As well as the normal teaching dinles, the applicate will be required to participate in the development of the College or only activities prescribed by the College Director, QUALIFICATIONS: An appropriate university degree and higher qualifications in Mantagement are required. Preferance will be given to applicants who have held positions in Education Managements. (CO 77/15)

SENIOR LECTURER/ LECTURER IN SOCIOLOGY

DUTIES: To teach, prepare and develop programmes in Sociology in one or more of the following areas.

Urban Suclotogy, Ethink Studies and primary school such studies corriculum. As well as the normal teaching duties, the applicant will be required to participate in the development of the Cyllege or any activities prescribed by the College Director.

QUALIFICATIONS: A higher degree in the Social Sciences. Experience in teaching at a tertiary level desirable.

SENIOR LECTURER IN PSYCHOLOGY

PUTIES: To be responsible for the development and teaching of flyschology within the Teacher Training, Youth Work and Welfare Administration courses. As well as the normal leaching darks, the applicant will be required to participate in the development of the College or ony activities prescribed by the College Director.

QUALIPICATIONS: A higher degree in Psychology and relevant teaching and adolitistality experience. Applicants should be eligible for registration as a Psychologist under the appropriate professional association.

SALARIES: Lechner, \$A14,621-\$A19,675-\$A22,955

Applications should be acut as shoul as possible. Details with the Courtenium Vitue should include qualifications, experience, oge, interfal status, telephone buildiers and the names and addresses of three referees, one of whom mist be a present of recent couplayer.

The successful applicant cells between the processing applications the same and applications the same successful applicant cells between the processing applications.

The successful applicant will have the economy air fare to him/herself and tamily paid to Melhourne plus a negotiable offorwards for rentoral expenses.

A limited tenure oppointment or secondment would be considered.

NOTE: The Cullege Council reserves the right to appoint by invitation or make no appointment in response to Applications close on Manday, 5th December, 1977. PILICATE COLLEGE OF VICTORIA AT COBURG, P.O. BOX 179, COBURG, MELBOURNE 3088

EN HONGKONG. CT POVIEME Assistant Estates Officer (Services/Planning)

A degree or professional qualification in a relovant

To be responsible to the Estates & Development Dilicer for listson with development architects and consultants for all services requirements on sing in connection with new buildings and hitmo developments for the Polytechnic. Provide performance specifications, make recommendations on service matters concerning alterations to existing buildings. Work with the Assistant Felalos Officer buildings. Work with the Assistant Estates Officer [Services] on all existing sources and plant main-

Salary to acole HK\$7-1,460 x 6 incramants to \$100.380 p.e.

Appointment on two-year gratuity bearing contract initially. Therealler auitable appointees may be ollered turther contracts or apperennable terms at the diacrellon of the Polytechnic

Fran pasages, long lasve, subsidised occommoda-lion, medical and dantal treatment, admention allowances and a leminal gratulty equal to 25 per cent of basic salary teceived over entire contract

Application form and further details from the Recruitment Unit. TETOC (Technical Education and Training Organisation lot Ovarsans Countries), 35/37 Grosvenor Gardona, London SW1W 088.

Closing data for recolpt of applications, 21st November, 1977.

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During your career you could expect periods in charge of the tax allairs of an online district managing ebliv payeino ban heli besie rish a cele year not inchereb to crowoq

Qualifestions: Under 32 and o degree with ours - at least second class honoure ability is cored for Final Year Students may apply.

Starting salary 12,940-14,200 according to experience. If you slatt al 21, your calary chould be over \$1,700 at 23 and over \$6,100 at 27. By you lake 30°c you should be narning over 1.00 at 21. By you lake 30°c you should be narning over 1.00.00°C. By 40 you could be in a post with the Tax inapostorate or in general management in the Crelifferives, labing you in 111,000. There are vacances allower the country. Salaries higher all over the country. Salaries higher

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The successful candidota will have four major responsibilites - to act as course manager for a minibor of courses; to loach the spacialist subject to proper support of the space support of the spa to propare supporting training metarial succession propare supporting training metarial society studies, brouklots, etc., and to assist the medicing development and research work undertaken by the Staff College, Indicity most of the tutorial time with spent servicing residential general and modular monogement courses. monogement courses.

Applicants must be graduates or professionally qualitied, preferably with a post-greduale management qualification. Saveral years of imustriel or commercial experience eline pet or luli-timo in management subjects is desirable of luli-timo in management subjects is desirable of luli-timo en management subjects is desirable. including expenence in the use of appropriate applied training techniques and skills.

Applications stating to train and details and present address to the Group Personnel Officer. CENTRAL ELECTRICITY GENERATING BOARD, Sudden House 15 May 15 M House, 15 Newgale Street, London EC14 7AU, by 14 November 1977, Quoia Rel. THES/905.

LETTERS TO THE EDITOR

Science and values

TECHNICAL

EDUCATION

EGYPT

The Belish Cancell has decided to starp and the process of the proc

Section will be by Lundon Herches at her bear thing of the control of the control

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way round.

I am not silent about the Lyson- Radical Science to affoir; I have written several 9 Polond Street,

camino make a clear-cut separation herween routext and reachistons, and public discussion at the institutional star promote such scientifically and public discussion at the finding public discussion at the finding public discussion at the finding in the context of the institutional science and visites and fears about the first has long upheld a science in maparant for this is that the scientific semigration of research along pheld a science defended by for all politicized. Socio-biology does belong in a list with onlying and sort furbids, public science is fally politicized. Socio-biology does belong in a list with onlying and conception of science and reducing the science is false microl subjectivity and steer over simplification. So why sees the very things he needs of science is false microl subjectivity and steer over simplification. So why the steer o

Adult literacy council

toted learning for ell adults who osk, then, all power to them. Along with such an advance would come the acceptance of such a life style, by the acceptance of such a life style, by the acceptance of such a life style, by the acceptance of such a life style, and such as the errs, crafts, physical ond manual skills and so on, as viable studies passessing intrinsic key Road, Richmond.

the milito at once autherstative undiagnest; hence the inclusion of the large group of university interests.

In oblding ingether education committee members and education officers, I accept their five seats as a fair balance for those actually administering the bulk of adult enlaced the provision. But if the student representation from the Open University is udded, the noiversity block begins to approach one-third of all representation: far too large for a relatively small section of udult education in campurison with the numbers of students and staffs in the 8,000 l.e.s. and voluntary centres in England and Wules.

If the university sector intends a mossive expansion of less structured, less degree/diploma-orientiated learning for ell adults who sok, then, all power to them. Along with such an advance would come.

lies, however, he has missteted en essential fact. It is not the case that "At some stoke the council gave the German Government its word that it would take the reaction of officials into account before the report was published".

Port was published".

We had only unofficial contects with individuals in the German Government, and thoy did not ask, not did we give, any such underteding. We merely indicated to them our intention to show the report to knowladgeable Germans who, as individuals, would comment upon it before we published it. It was clearly understood on both sides, of course, that the members of the commission reserved the right of final judgment os to the contents. final judgment os to the contents of their report.

These may seem like trivial points to take itsue with in an otherwise thorough and commendable pleco of reporting. We are concerned, however, that the council is anything but what it is: an entirely independent, private body. Yours sincerely.

Chairman,
The Interantional Council on the
Funico of the University,
745 Fifth Avenue,

Cardiff appointments

Yours sincerely CHARLES FRANKEL.

Sir,—I have been following the correspondence in The THES about the recent appointments at the University of Cardiff. It is highly disquieting that one candidate for a post should be invited to name external essossore, to mention just one faci, and that an official investiga-tor should not think this in any way wrong.

Members of the public like myself would like to see a clear code of conduct for such appoint-ments, with the right of appenl to e body outside the particular univor-slty in question. Ynura siacerely,

JOHN NIGHTINGALE, The Vicarege, Ambarley, Arundei

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